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STARVATION RESERVOIR STATE PARK NEW RESTROOM AND SHOWER FACILITY P.O. BOX 584

Duchesne, Utah 84021 DFCM PROJECT NO. 06156510



State of Utah— Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

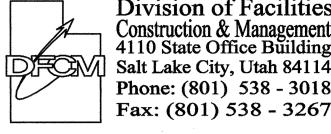
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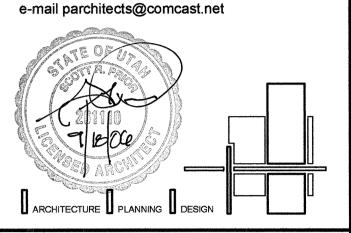
State of Utah
Department of Administrative Services

Division of Facilities
Construction & Management



D CREATED BY: P+A architects

P+A architects
821 East Kensington Ave.
Salt Lake City, Utah 84105
P: 801.484.1161
F: 801.485.4640



BUILDING NAME:

GROUP FACILITY AREA
NEW RESTROOM AND
SHOWER FACILITY

STARVATION RESERVOIR

DUCHESNE, UTAH

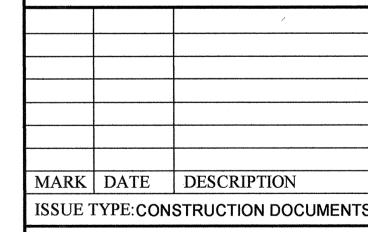
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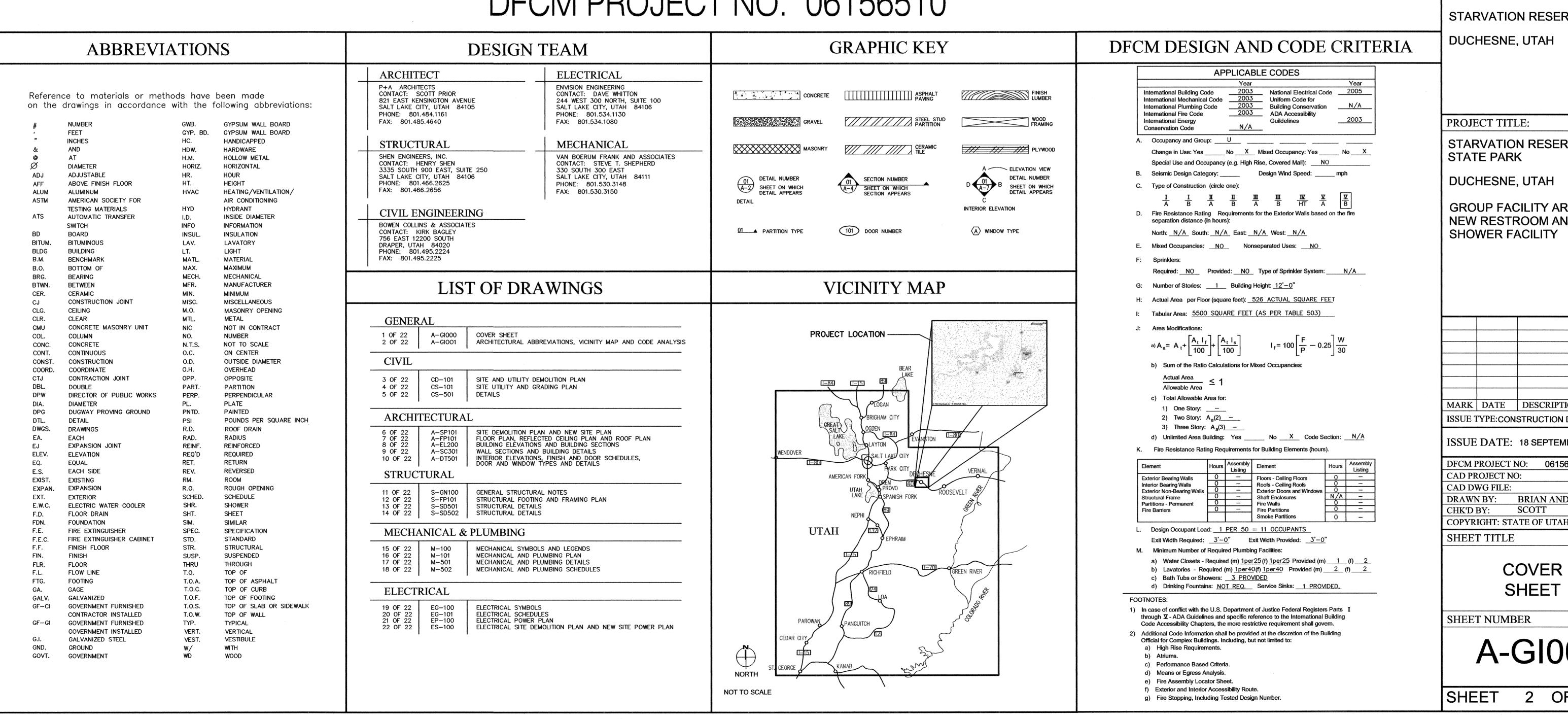
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SHEET 1 OF 22

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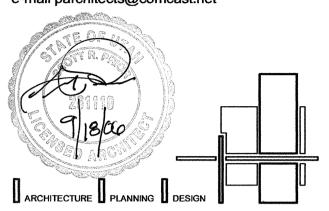


Division of Facilities Construction & Management 4110 State Office Building Salt Lake City, Utah 84114 Phone: (801) 538 - 3018 Fax: (801) 538 - 3267

Internet: http://www.dfcm.state.ut.us

CREATED BY: P+A architects

P+A architects 821 East Kensington Ave. Salt Lake City, Utah 84105 P: 801.484.1161 F: 801.485.4640 e-mail parchitects@comcast.net



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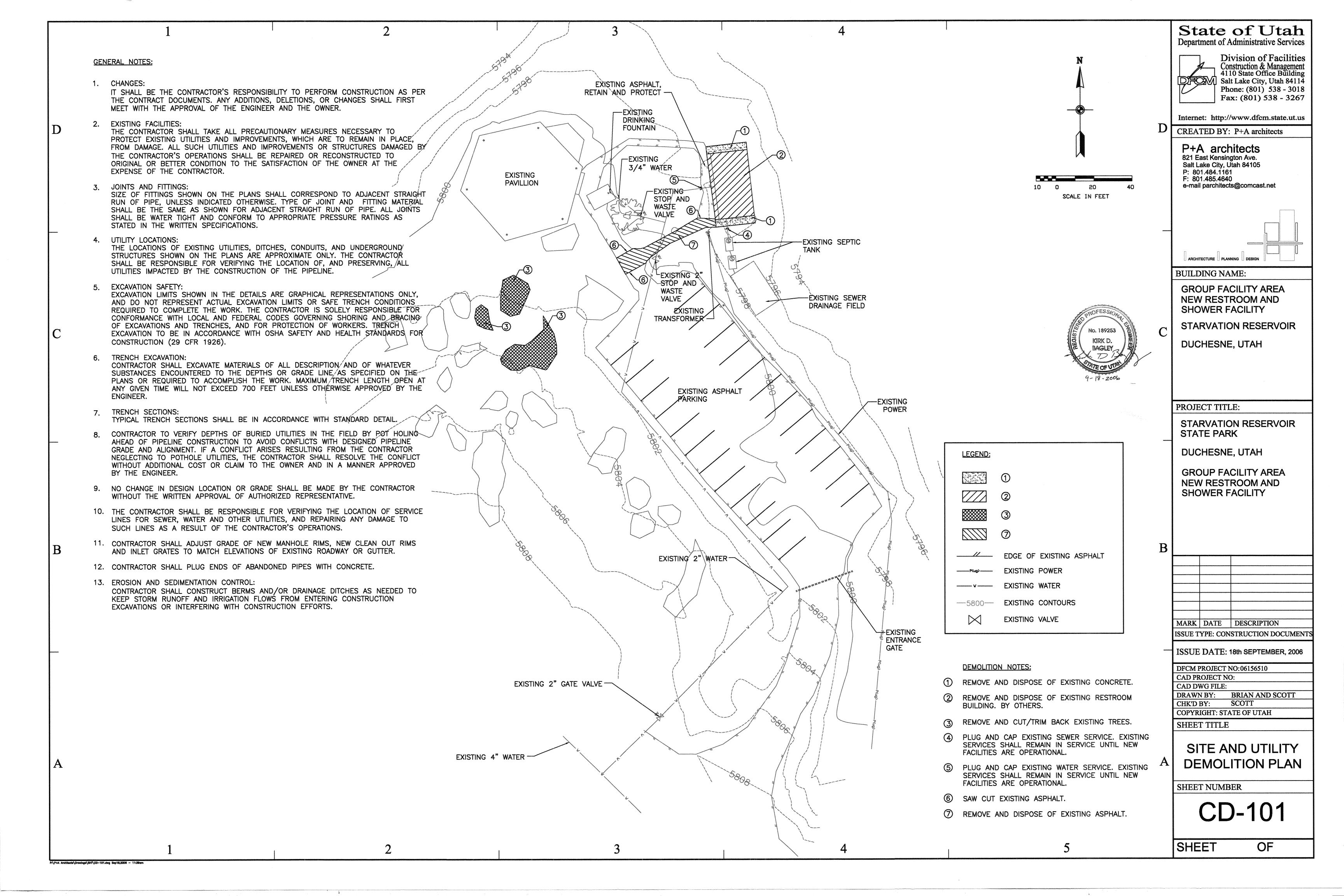
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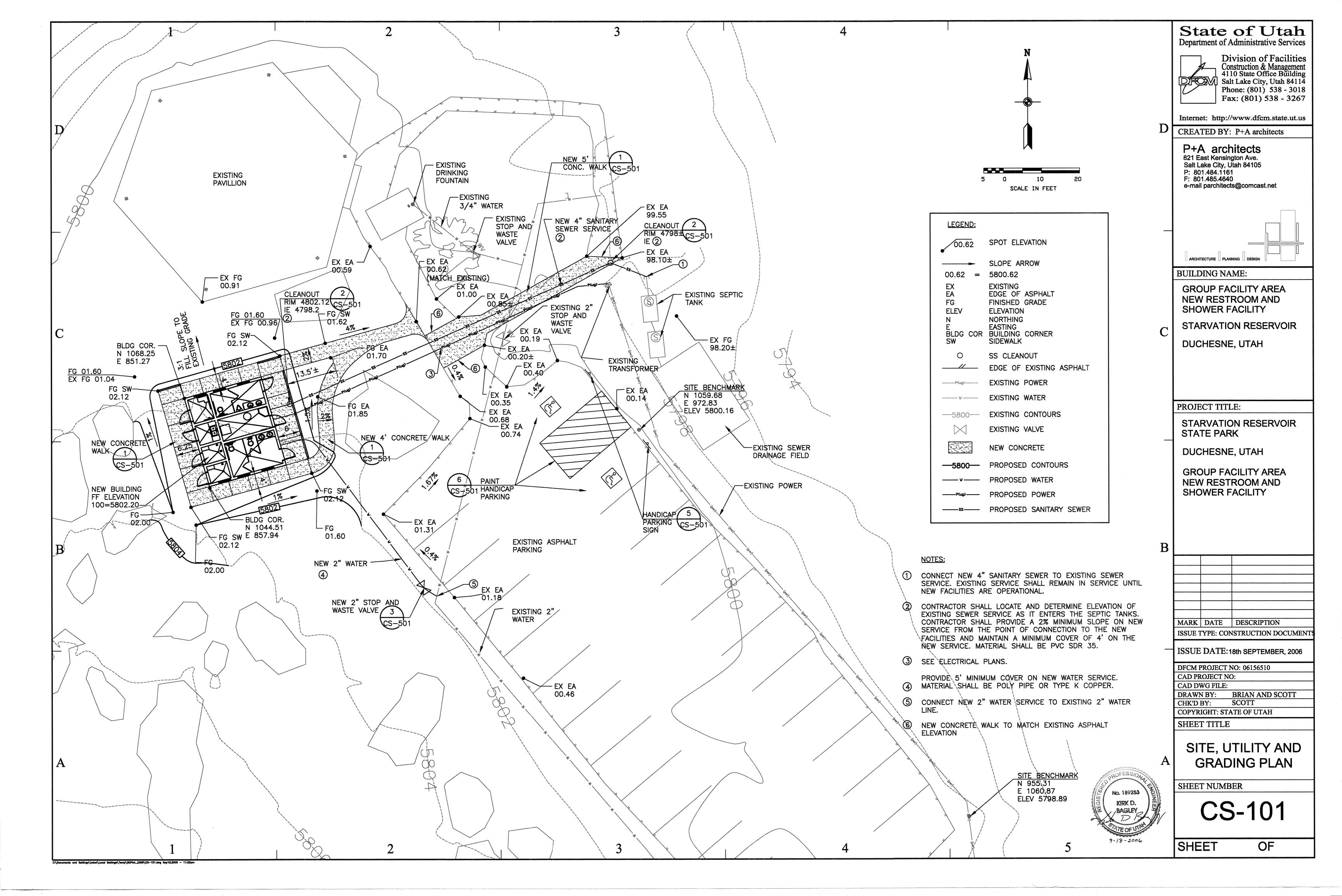
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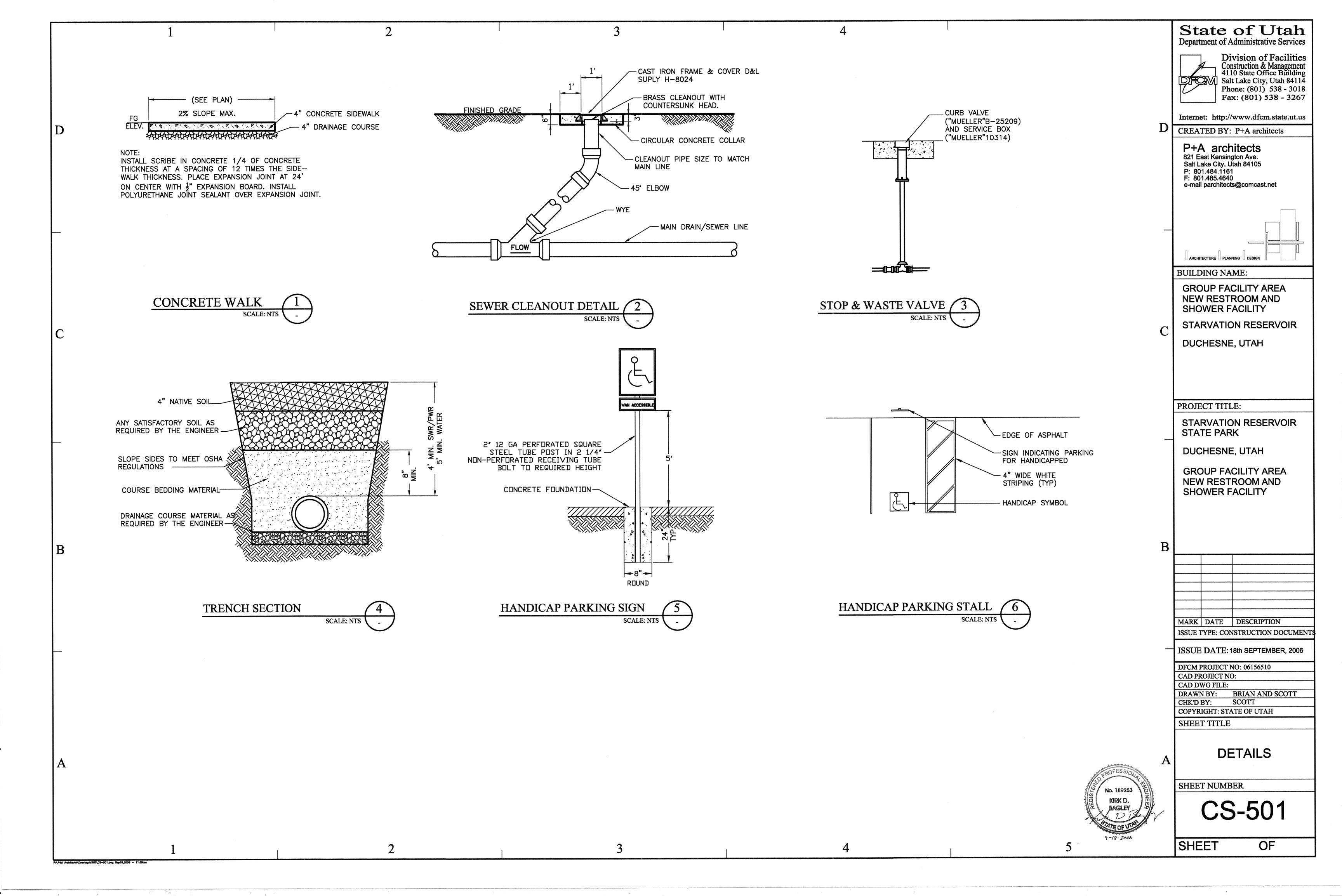
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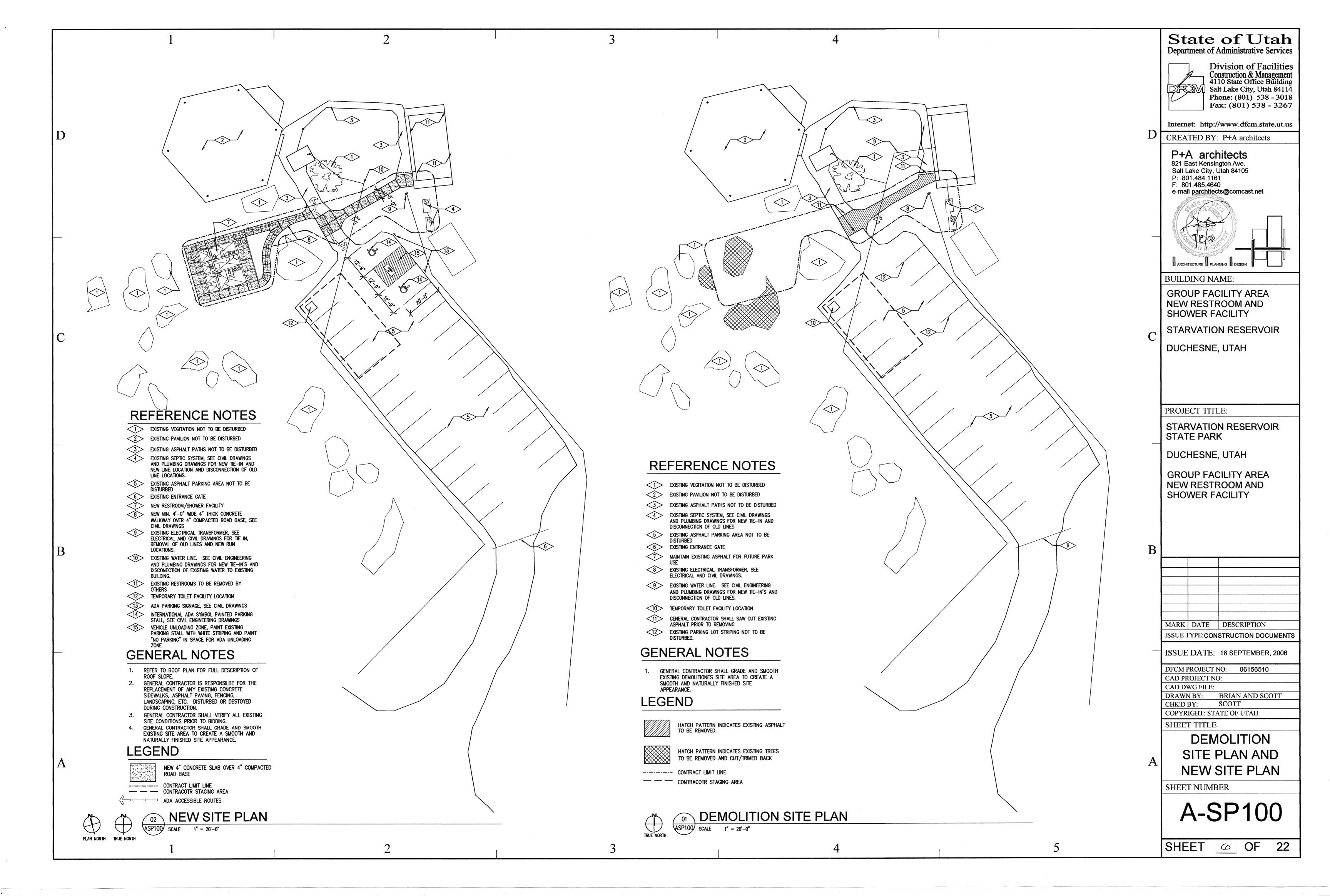
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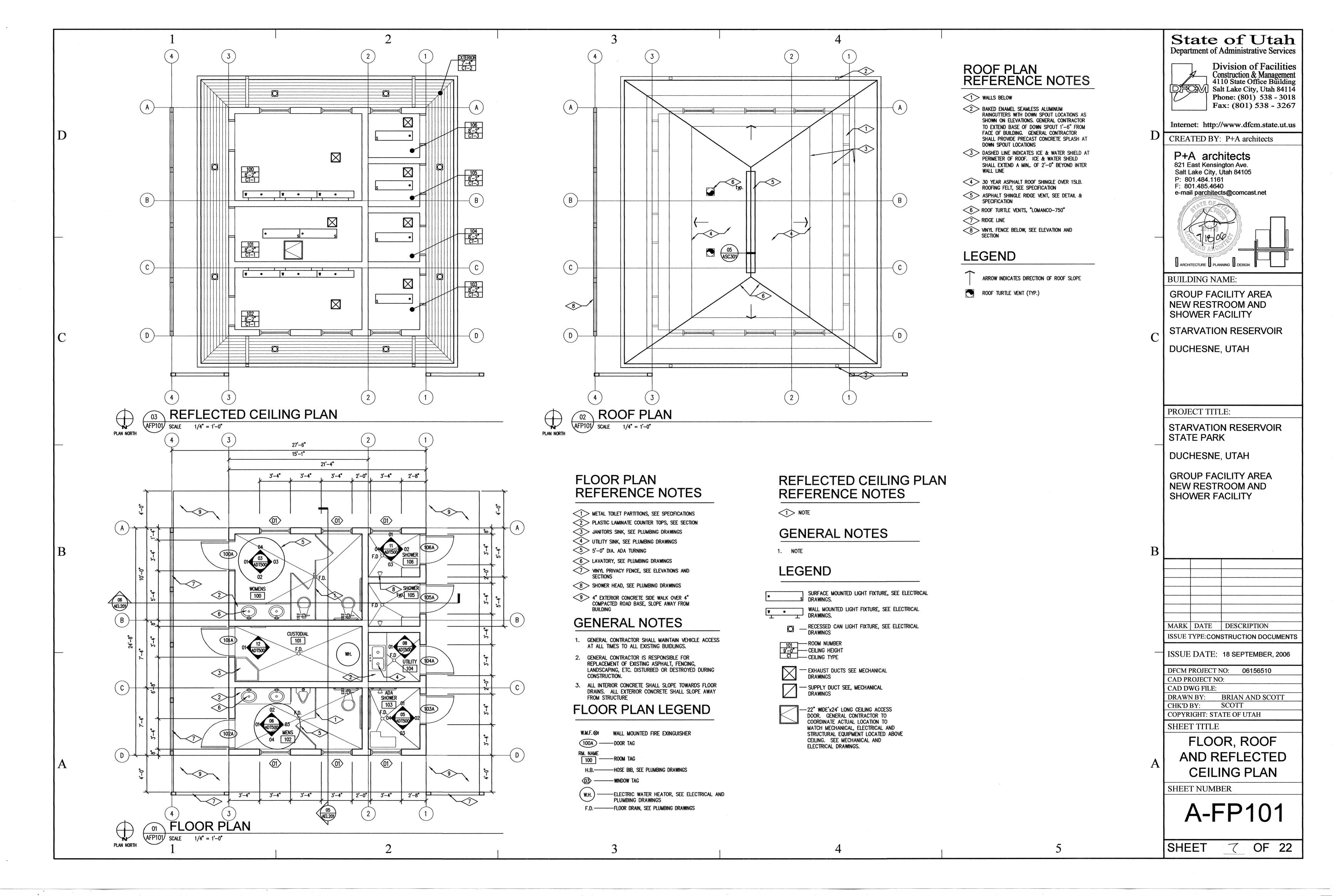
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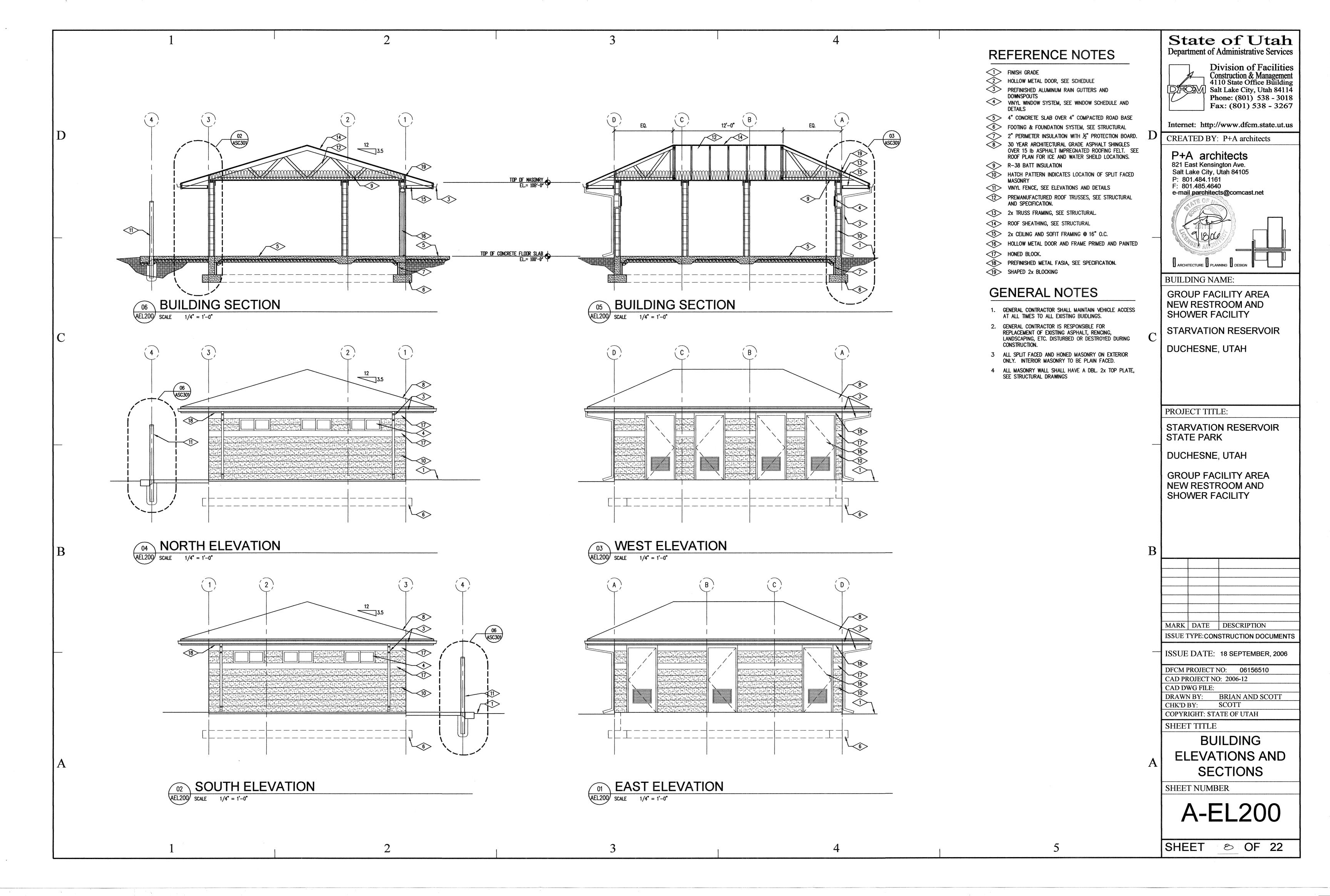


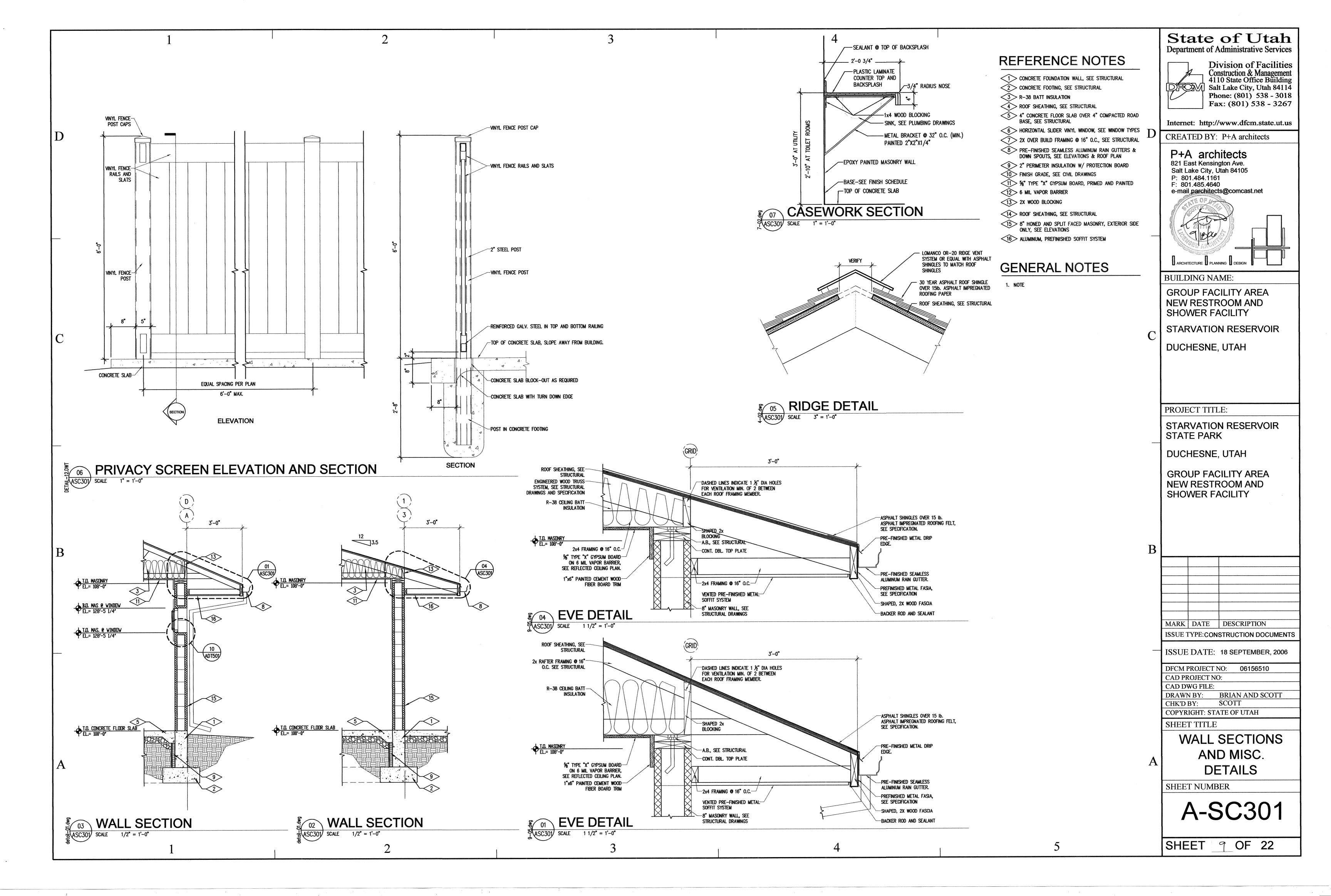


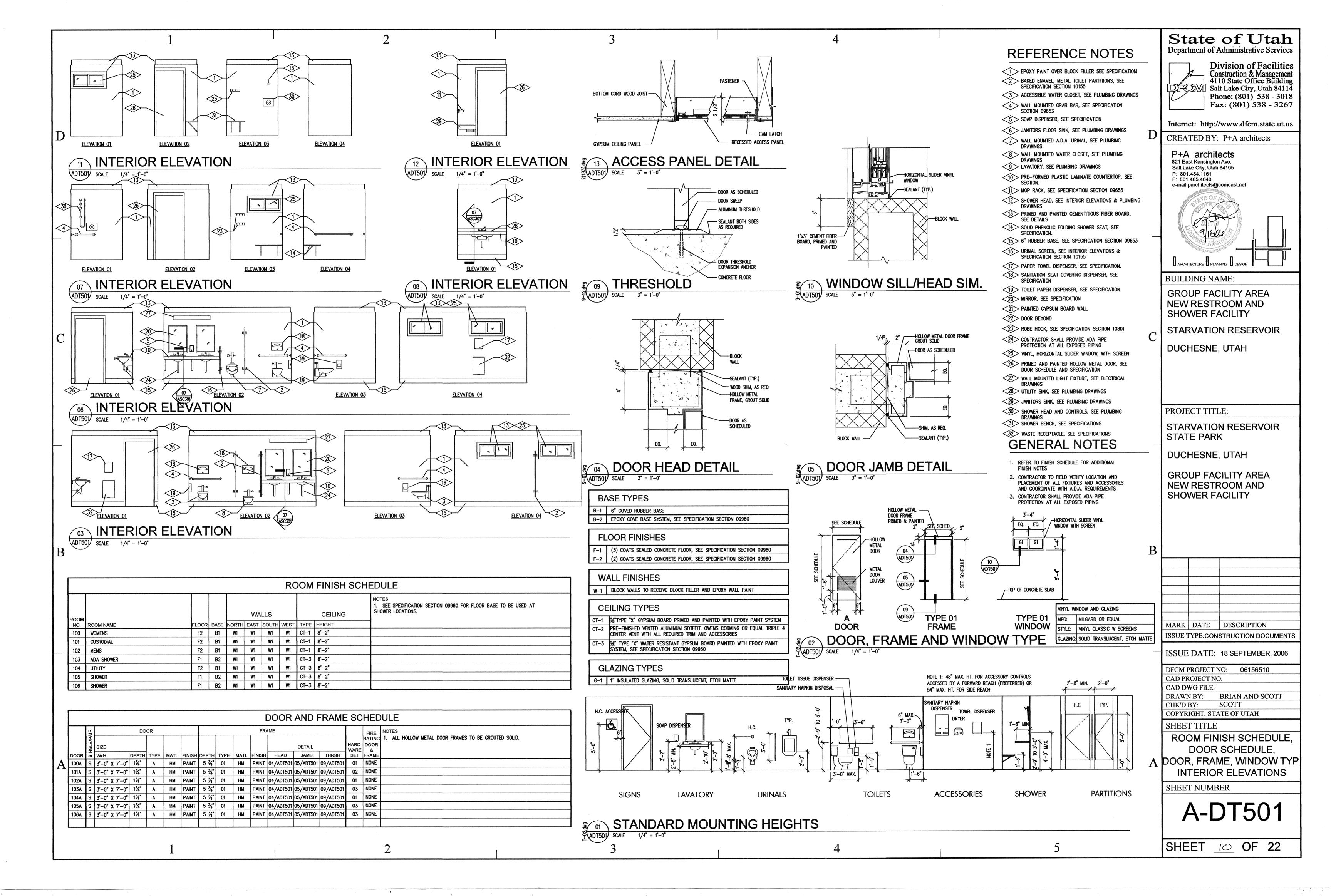












GENERAL STRUCTURAL NOTES:

GENERAL:

- A. THE STRUCTURAL DRAWINGS SHOW THE COMPLETED PROJECT. DETAILS, SECTIONS, AND NOTES SHOWN ON THE DRAWINGS SHALL BE TYPICAL AND APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE.
- REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE NOTES OR STRUCTURAL DRAWINGS. WHERE THE STRUCTURAL NOTES, DRAWINGS OR SPECIFICATIONS DISAGREE, THE CONTRACTOR MAY REQUEST A CLARIFICATION. OTHERWISE
- THE MORE STRINGENT REQUIREMENTS SHALL CONTROL CONTRACTOR SHALL COMPARE ALL DIMENSIONS AND CONDITIONS ON CONTRACT DOCUMENTS AND AT THE SITE. ANY OMISSION OR CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. IN CASE OF ANY CONFLICT FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY ARCHITECT/ENGINEER.
- D. SEE THE ARCHITECTURAL DRAWINGS FOR DOORS, WINDOWS, NON-BEARING INTERIOR AND EXTERIOR WALLS, RECESSES, DEPRESSIONS, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION IN AND AROUND THE JOB SITE AND ADJACENT
- F. CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ALL PORTIONS OF THE BUILDING UNTIL THE ENTIRE STRUCTURE OF THE BUILDING IS COMPLETE.
- OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER'S FIELD REPRESENTATIVES SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN UTAH.

II. DESIGN CRITERIA:

- BUILDING CODE: 2003 INTERNATIONAL BUILDING CODE (IBC) W/ **AMENDMENTS**
- B. LOADINGS:
 - ROOF SNOW LOAD = 70 PSF
 - BASIC WIND LOAD 90 MPH ZONE EXPOSURE C SEISMIC DESIGN CATEGORY: D2.
- C. FOUNDATION:
 - 1. ALL EXTERIOR FOOTINGS ARE TO BE FOUNDED AT NOT LESS THAN 36" BELOW LOWEST ADJACENT FINISH FLOOR OR FINISH GRADE ONTO UN-DISTURBED SOIL OR STRUCTURAL FILL HAVING A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. INTERIOR FOOTINGS ARE TO BE FOUNDED AT NOT LESS THAN 8" BELOW LOWEST ADJACENT FINISH FLOOR OR FINISH GRADE.

III. CONCRETE:

- A. ALL MATERIALS SHALL COMPLY WITH ACI 318 AND ACI 347 PUBLICATIONS AND APPLICABLE ASTM PUBLICATIONS.
- CONCRETE MATERIAL PROPERTIES: 28-DAY COMPRESSIVE STRENGTHS ARE TO BE 3000 PSI TYPICAL UNLESS NOTED OTHERWISE. DESIGN BASED ON 2500 PSI. CONCRETE SLAB ON
- GRADE TO BE 4000 PSI. C. CAST IN PLACE CONCRETE:
 - SPACING OF CONSTRUCTION JOINTS OR CONTROL JOINTS IN WALLS EXPOSED TO VIEW SHALL NOT EXCEED 40 FEET UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
 - PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE UNLESS NOTED OTHERWISE.
 - PROVIDE CLASS B LAP SPLICES FOR ALL REINFORCING
 - UNLESS NOTED OTHERWISE. PROVIDE ISOLATION JOINTS AROUND ALL COLUMNS AT ALL
- EXPOSED SLAB ON GRADE AREAS.

IV. REINFORCING STEEL:

- A. ALL BARS #4 AND LARGER TO BE ASTM A 615, GRADE 60. ALL #2 AND #3 BARS TO BE ASTM A 615, GRADE 40. DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH ACI-318,
- ALL REINFORCING STEEL SHALL BE BENT, DETAILED AND CHAIRED AS PER "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES".
- WELDED WIRE FABRIC TO BE IN ACCORDANCE WITH ASTM A 185. ALL BARS INDICATED ON THE PLANS TO BE WELDED SHALL
- CONFORM TO ASTM A706 (GRADE 60). CONCRETE COVER REQUIREMENTS FOR DEFORMED BAR REINFORCING STEEL SHALL COMPLY WITH ACI 318, "BUILDING

CODE REQUIREMENTS FOR REINFORCING CONCRETE".

CAST-IN-PLACE CONCRETE:

- a) CONCRETE CAST AGAINST AND PERMANENTLY
- EXPOSED TO EARTH: b) FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
- #6 BARS AND LARGER: #5 BARS AND SMALLER: CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS JOISTS: #11 BARS OR SMALLER: BEAMS, COLUMNS: PRIMARY REINFORCING, TIES.
- STIRRUPS, SPIRALS: 1-1/2" F. DETAILING: SUBMIT PLACING DRAWINGS PER ACI DETAILING MANUAL, ACI SP-66. FABRICATE ONLY AFTER REVIEW AND APPROVAL. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY SHOWN ON DRAWINGS.
 - 1. LAP SPLICE LENGTHS SHALL BE AS FOLLOWS: 30 BAR DIAMETER FOR #3 AND #4 BARS 40 BAR DIAMETER FOR #5 THROUGH #8 BARS

DO NOT SPLICE STIRRUPS AND TIES DO NOT SPLICE VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY SHOWN.

V. MASONRY:

A. GENERAL:

- 1. LIGHTWEIGHT HOLLOW CONCRETE MASONRY UNIT TO BE ASTM C 90, GRADE N-1 AND HAVE A MINIMUM UNIT STRENGTH OF 2800 PSI AND I'm OF 2000 PSI. MORTAR TO BE TYPE "S". GROUT FILL TO BE 2000 PSI AT 28
- MASONRY DESIGN IS BASED ON VALUES WITH LEVEL 2 INSPECTION.
- SEE CONCRETE FOR REQUIREMENTS FOR REINFORCING.

B. MASONRY REINFORCING:

- MINIMUM REINFORCING OF CONCRETE MASONRY UNIT ALL MASONRY WALLS SHALL BE REINFORCING AS FOLLOWS, UNLESS SHOWN OTHERWISE ON THE DRAWINGS
- C.M.U. WALLS ARE TO HAVE #5 VERTICALS AT ALL CORNERS, ENDS, JAMBS, INTERSECTIONS AND BOTH SIDES OF CONTROL JOINTS, TYPICAL UNLESS NOTED OTHERWISE. ADDITIONAL VERTICAL REINFORCING SHOWN ON PLAN IS
- IN LIEU OF TYPICAL REINFORCING. PLACE ONE BAR PER CELL IN SOLID GROUT. EXTEND BARS A MINIMUM OF 30 BAR DIAMETERS BEYOND THE ROOF LEVEL ABOVE.
- BUILDING WALLS ARE TO HAVE 2 #5 BARS CONTINUOUS IN A MINIMUM 8" DEEP BOND BEAM AT ALL ROOF LEVELS UNLESS NOTED OTHERWISE. BUILDING WALLS ARE TO HAVE 1 #5 BAR CONTINUOUS IN
- A MINIMUM 8" DEEP BOND BEAM AT THE TOP OF ALL PARAPETS UNLESS NOTED OTHERWISE. PROVIDE A MINIMUM OF 2 #5 BARS X (THE WIDTH OF THE OPENING PLUS 4'-0") IN A MINIMUM 8" DEEP BOND BEAM BELOW ALL WINDOW AND MECHANICAL OPENINGS UNLESS

C. MASONRY LINTELS:

- 1. ALL REINFORCING IS TO EXTEND A MINIMUM OF 2'-0" BEYOND THE JAMB AND TO BE GROUTED SOLID FOR THE ENTIRE DEPTH INDICATED.
- 2. ALL CONCRETE MASONRY UNITS USED IN THE LENGTH ARE TO BE "OPEN-END" TYPE, TO INSURE FULLY GROUTED HEAD JOINTS.
- ALL LINTELS ARE TO BE PROPERLY SHORED FOR THEIR WEIGHT PLUS ANY CONSTRUCTION LOADS AND LATERALLY BRACED TO PREVENT ANY LATERAL MOVEMENT FOR A MINIMUM OF 7 DAYS AFTER GROUTING, UNLESS NOTED OTHERWISE.

D. MASONRY GROUTING PROCEDURES:

NOTED OTHERWISE.

- GROUTED MASONRY SHALL BE CONSTRUCTED IN SUCH A MANNER THAT ALL ELEMENTS OF THE MASONRY ACT TOGETHER AS A STRUCTURAL ELEMENT.
- PRIOR TO GROUTING, THE GROUT SPACE SHALL BE CLEANED SO THAT ALL SPACES TO BE FILLED WITH GROUT DO NOT CONTAIN MORTAR PROJECTIONS GREATER THAN 1/2", MORTAR DROPPINGS OR OTHER FOREIGN MATERIAL
- 3. GROUT MATERIALS AND WATER CONTENT SHALL BE CONTROLLED TO PROVIDE ADEQUATE FLUIDITY FOR PLACEMENT, WITHOUT SEGREGATION OF THE CONSTITUENTS AND SHALL BE MIXED THOROUGHLY. SEGREGATION OF THE GROUT MATERIALS AND DAMAGE TO THE MASONRY SHALL BE
- AVOIDED DURING THE GROUTING PROCESS. 4. THE GROUTING OF ANY SECTION OF WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.
- BETWEEN GROUT POURS, A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING ALL WYTHES AT THE SAME ELEVATION AND WITH THE GROUT STOPPING A MINIMUM OF 1 1/2 INCHES BELOW A MORTAR JOINT, EXCEPT AT THE TOP OF THE WALL. WHERE BOND BEAMS OCCUR, STOP GROUT POUR A MINIMUM OF 1/2 INCH BELOW THE TOP OF THE MASONRY.
- ALL CELLS AND SPACES CONTAINING REINFORCING BARS SHALL BE FILLED WITH GROUT. GROUT SHALL BE PLACED SO THAT ALL SPACES TO BE GROUTED DO NOT CONTAIN
- GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING BEFORE LOSS OF PLASTICITY IN A MANNER TO FILL THE GROUT SPACE, GROUT POURS GREATER THAN 12 INCHES SHALL BE RECONSOLIDATED BY MECHANICAL VIBRATION TO MINIMIZE VOIDS DUE TO WATER LOSS. GROUT POURS 12 INCHES OR LESS IN
- HEIGHT SHALL BE MECHANICALLY VIBRATED, OR PUDDLED WHERE GROUT POURS EXCEED 5 FEET, CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE AT EVERY VERTICAL BAR LOCATION BUT SHALL NOT BE SPACED MORE THAN 32 INCHES ON CENTER FOR SOLID GROUTED MASONRY. GROUT SHALL BE PLACED IN A CONTINUOUS POUR NOT TO EXCEED 16 FEET IN HEIGHT, AND IN GROUT LIFTS NOT TO
- EXCEED 6 FEET. REINFORCING SHALL BE CONTINUOUS THE FULL HEIGHT OF THE GROUT POUR PLUS ANY REQUIRED LAP ABOVE. REINFORCEMENT SHALL BE SECURED AGAINST DISPLACE MENT PRIOR TO GROUTING BY WIRE POSITIONERS OR OTHER SUITABLE DEVICES AT INTERVALS NOT TO EXCEED 200 BAR DIAMETERS NOR 10 FEET.
- 10. TOLERANCE FOR THE PLACEMENT OF STEEL IN WALLS AND FLEXURAL ELEMENTS SHALL BE PLUS OR MINUS 1/2 INCH FOR "D" EQUAL TO 8 INCHES OR LESS, PLUS OR MINUS ONE INCH FOR "D" EQUAL TO 24 INCHES OR LESS BUT GREATER THAN 8 INCHES, AND PLUS OR MINUS 1 1/4 INCH FOR "D" GREATER THAN 24 INCHES.

VI. STRUCTURAL AND MISCELLANEOUS STEEL:

A. MATERIAL PROPERTIES:

- 1. ALL SHAPES, PLATES, ANGLES, AND CHANNELS TO BE ASTM A-36 UNLESS NOTED OTHERWISE.
- 2. ALL WF SHAPES WEIGHING 84 POUNDS PER LINEAR FOOT OR LESS TO BE ASTM A 572, GRADE 50. ALL WF SHAPES WEIGHING MORE THAN 84 POUNDS PER LINEAR FOOT TO BE ASTM A 572, GRADE 36.
- SQUARE OR RECTANGULAR TUBES TO BE ASTM A 500, GRADE B, Fy = 46 KSI.
- ALL STEEL TO BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS, LATEST ADOPTION.

WELDING:

- 1. FOR STRUCTURAL STEEL TO BE IN ACCORDANCE WITH A.W.S. REQUIREMENTS FOR E70XX ELECTRODES. E60XX MAY BE USED FOR WELDING STEEL FLOOR AND ROOF
- 2. MINIMUM WELDS: ALL INTERSECTING STEEL SHAPES THAT ARE NOT BOLTED SHALL BE CONNECTED BY A FILLET WELD ALL AROUND, UNLESS NOTED OTHERWISE. FILLET WELD SIZES THAT ARE NOT SHOWN SHALL BE 1/16" LESS THAN THE THINNEST OF THE CONNECTED PARTS FOR THICKNESS 1/4" AND LARGER. FILLET WELDS ON PLATES LESS THAN 1/4" SHALL BE OF THE SAME SIZE AS THE THINNEST OF THE CONNECTED PART.

C. BOLTS:

- 1. ALL BOLTS TO BE 3/4" DIAMETER ASTM A 325-N UNLESS NOTED OTHERWISE, A325N BOLTS SHALL BE USED IN CONNECTIONS FOR SIMPLE SPAN FRAMING AND BEAMS TO BEARING PLATE CONNECTIONS. TIGHTEN BOLTS TO SNUG TIGHT CONDITION
- BOLTS, NUTS AND WASHERS SHALL NOT BE REUSED.
- ANCHOR BOLTS SHALL BE ASTM A 307 OR A 36. EXPANSION BOLTS ARE 3/4" DIAMETER RAMSET "DYNABOLTS" INSTALLED IN ACCORDANCE WITH ICBO #1372. MINIMUM EMBEDMENT TO BE 3 1/2" IN CONCRETE AND 5" IN SOLID GROUTED MASONRY. ALL CONCRETE OR MASONRY SHALL BE AT ITS SPECIFIED DESIGN STRENGTH AT THE TIME OF INSTALLATION.
- VII. SPECIAL INSPECTION: SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH IBC SECTION 1701.
 - ALL CONCRETE MASONRY UNITS AND REINFORCING. FIELD WELDING.

VIII. WOOD:

- DIMENSIONAL LUMBER: ALL TO BE GRADE STAMPED PER W.C.L.B. RULES.
- 1. ALL JOISTS, BEAMS, PLATES, HEADERS AND OTHER LUMBER TO BE D.FIR/LARCH #2 UNLESS OTHERWISE
- 2 X 4 SUB-PURLINS TO BE D.FIR/LARCH NO.1.
- 2X 6 SUB-PURLINS TO BE D.FIR/LARCH NO.1. PURLINS TO BE D.FIR DENSE #1.
- 4X AND 6X POSTS TO BE D.FIR/LARCH NO.1 WALL STUDS TO BE D.FIR/LARCH #2 GRADE OR BETTER.

B. GLU-LAMS:

1. TO BE GRADE STAMPED PER A.I.T.C., D.FIR/LARCH COMBINATION 24F-V8 FOR CONTINUOUS SPANS AND D.FIR/LARCH COMBINATION 24F-V4 FOR SIMPLE SPANS. GLUED WITH WATERPROOF GLUE.

C. PLYWOOD:

- 1. ROOF SHEATHING TO BE STD 7/16" OSB OR C-D WITH EXTERIOR GLUE, IDENTIFICATION INDEX 40/20. NAIL WITH 8d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS AND WITH 8d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
- SPECIAL TREATMENTS (AMERICAN WOOD PRESERVERS INSTITUTE STANDARDS):
 - 1. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR SOIL: PRESSURE TREAT WITH WOLMAN CCA PRESERVATIVE OR EQUAL AS APPROVED BY THE ARCHITECT
 - 2. FIRE RETARDANT: PRESSURE TREAT WITH DRICON OR EQUAL AS APPROVED THE ARCHITECT.

WOOD NAILING SCHEDULE:

- JOIST TO SILL OR GIRDER, TOENAIL 3-8d BRIDGING TO JOIST, TOENAIL EACH END 2-8d
- 1"X6" SUBFLOOR OR LESS TO EACH JOIST FACE NAIL 4. WIDER THAN 1"X6" SUBFLOOR TO EACH JOIST, FACE NAIL
- SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL
- SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL 2-16d TOP PLATE TO STUD, END NAIL 2-16d
- STUD TO SOLE PLATE TOENAIL 4-8d OR FACE NAIL 2-16d
- DOUBLE STUDS, FACE NAIL 16d @ 24" o.c. DOUBLED TOP PLATES, FACE NAIL 16d @ 16" O.C.
- 11. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL 12. CONTINUOUS HEADER, 2 PIECES 16d @ 16"O.C. ALONG 2
- **EDGES** 13. CEILING JOISTS TO PLATE, TOENAIL 3-8d
- 14. CONTINUOUS HEADER TO STUD, TOENAIL 4-8d
- 15. CEILING JOIST, LAPS OVER PARTITIONS FACE NAIL 16. CEILING JOIST TO PARALLEL RAFTERS FACE NAIL 3-16d
- 17. RAFTER TO PLATE, TOENAIL 4-8d 18. BRACE TO EACH STUD AND PLATE, FACE NAIL 2-8d
- 19. 1"X8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL
- 20. WIDER THAN 1"X8" SHEATHING TO EACH BEARING, FACE
- NAIL 3-8d 21. BUILT UP CORNER STUDS 16d @ 24" O.C. 22. BUILT-UP GIRDERS AND BEAMS 20d @ 32"O.C. AT TOP AND BOTTOM AND STAGGERED 2-20d AT EACH END &
- 23. PLANKS 2-16d AT EACH BEARING

IX. PREFABRICATED WOOD TRUSSES:

- 1. TO BE "GANG-NAIL" OR "ALPINE" OR APPROVED EQUAL DESIGNED, DETAILED AND FABRICATED IN ACCORDANCE WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENING" AND THE TRUSS PLATE INSTITUTE "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES", LATEST ADOPTION.
- LOADING:
 - a) TRUSS TOP CHORDS ARE TO BE DESIGNED FOR THE LIVE LOADS LISTED ABOVE AND FOR A SUPERIMPOSED DEAD LOAD OF NOT LESS THAN 15
 - b) TRUSS BOTTOM CHORDS ARE TO BE DESIGNED FOR A SUPERIMPOSED DEAD LOAD OF NOT LESS THAN 5
 - c) DESIGN TRUSSES FOR TWICE THE WEIGHT OF MECHANICAL UNITS INDICATED ON THE PLANS IN ACCORDANCE WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION TECHNICAL NOTE #9. REVIEW ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL UNITS REQUIRED.
 - d) FOR TRUSSES MANUFACTURED SUCH THAT ALL CHORDS ARE MSR LUMBER AND ALL CHORD SPLICES ARE FINGER JOINTS AND PROOF LOADED IN ACCORDANCE WITH IBC STANDARDS, THE ALLOWABLE STRESS INCREASE FOR DURATION OF LOAD MAY BE THE MAXIMUM PERMITTED BY THE NATIONAL FOREST

PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENING", LATEST ADOPTION.

SUBMITTALS:

- COMPLETE DESIGN CALCULATIONS SHALL BE FURNISHED TO THE ENGINEER FOR EACH TRUSS. CALCULATIONS MUST BE PREPARED AND SEALED BY
- AN ENGINEER REGISTERED IN THE STATE OF UTAH. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION.
- THE TRUSS MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE TRUSS QUALITY IS IN CONFORMANCE TO "QUALITY STANDARD FOR METAL PLATE CONNECTED WOOD TRUSSES", LATEST ADOPTION, PUBLISHED BY THE TRUSS PLATE
- THE TRUSS MANUFACTURER SHALL HAVE A QUALITY ASSURANCE PROGRAM IN ACCORDANCE WITH SECTION 25-1739 OF IBC STANDARD NO. 25-17 AND PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE FROM THE INDEPENDENT TESTING AGENCY.

GENERAL:

- a) ALL TRUSSES AND RELATED BRACING SHALL BE SIZED AND DETAILED TO FIT THE DIMENSIONS AND
- LOADS INDICATED ON THE PLANS. b) LUMBER USED FOR CHORDS AND WEBS SHALL HAVE A MAXIMUM MOISTURE CONTENT BELOW 19% AT THE
- TIME OF FABRICATION. c) ALL TRUSS MEMBERS SHALL MEET OR EXCEED VISUAL REQUIREMENTS FOR NO. 2 GRADE. NO WANE SHALL BE PERMITTED IN THE CONNECTION AREA.
- DESIGN LATERAL RESISTANCE VALUES FOR TRUSS PLATES AND METAL WEBS SHALL BE 80% OF ICBO ALLOWABLE LOAD VALUES. THE HANKINSON FORMULA OR STRAIGHT LINE
- INTERPOLATION SHALL BE USED TO DETERMINE LATERAL RESISTANCE VALUES FOR PLATE TO WOOD GRAIN ANGLES BETWEEN O AND 90 DEGREES. AT CHORD SPLICE LOCATIONS, MAXIMUM TENSION FORCES SHALL BE AS FOLLOWS:

PLATE GAGE 3500 # 5000 # 4800 # 7000 # 6000 # 9000 #

CONTACT AREA.

- EXCEED 3500 LBS. TRUSS PLATES SHALL BE SIZED SO THAT THEY CAN BE CENTERED BOTH HORIZONTALLY AND VERTICALLY
- ON THE JOINT UNLESS THE CHORD DEPTH OR THE TRUSS GEOMETRY PROHIBITS SUCH PLACEMENT. EVERY TRUSS PLATE SHALL BE FULLY EMBEDDED INTO THE UNDERLYING WOOD ACROSS THE ENTIRE

THE AXIAL FORCE FOR A 2X4 WEB SHALL NOT

ALL TRUSSES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF "HANDLING AND ERECTING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS", PUBLISHED BY THE TRUSS PLATE INSTITUTE. TEMPORARY BRACING SHALL BE INSTALLED DURING ERECTION AS REQUIRED BY THE LATEST EDITION OF "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS", PUBLISHED BY THE TRUSS PLATE INSTITUTE.

Department of Administrative Services Division of Facilities Construction & Management 4110 State Office Building

Salt Lake City, Utah 84114

Phone: (801) 538 - 3018

Fax: (801) 538 - 3267

State of Utah

CREATED BY: P+A architects

Internet: http://www.dfcm.state.ut.us

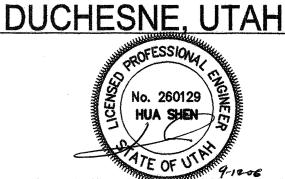
P+A architects 821 East Kensington Ave.

Salt Lake City, Utah 84105 P: 801.484.1161 F: 801.485.4640 e-mail parchitects@comcast.net

BUILDING NAME:

ARCHITECTURE PLANNING

GROUP FACILITY AREA **NEW RESTROOM AND** SHOWER FACILITY



PROJECT TITLE:

STARVATION **RESERVIOR** STATE PARK DUCHESNE, UTAH

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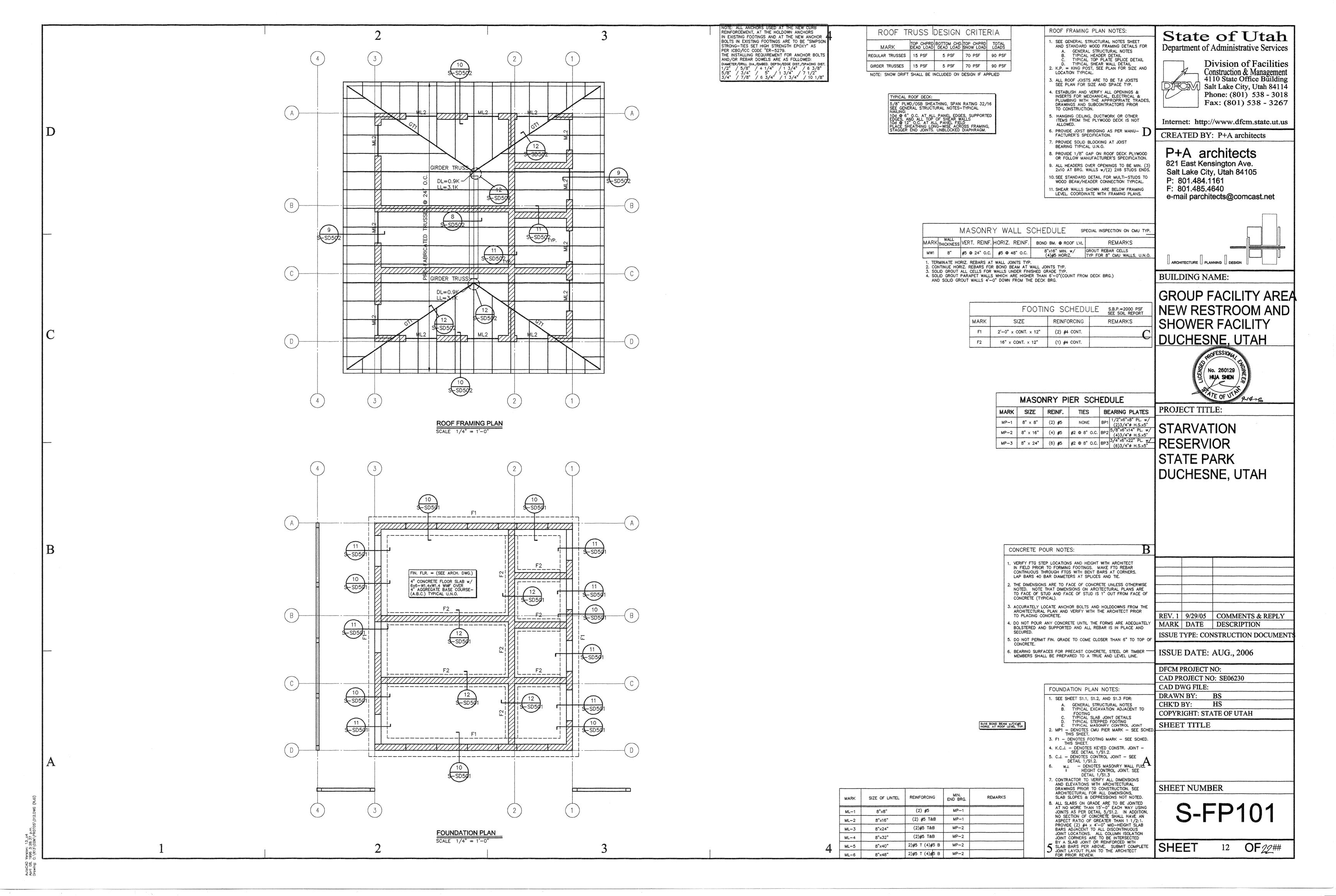
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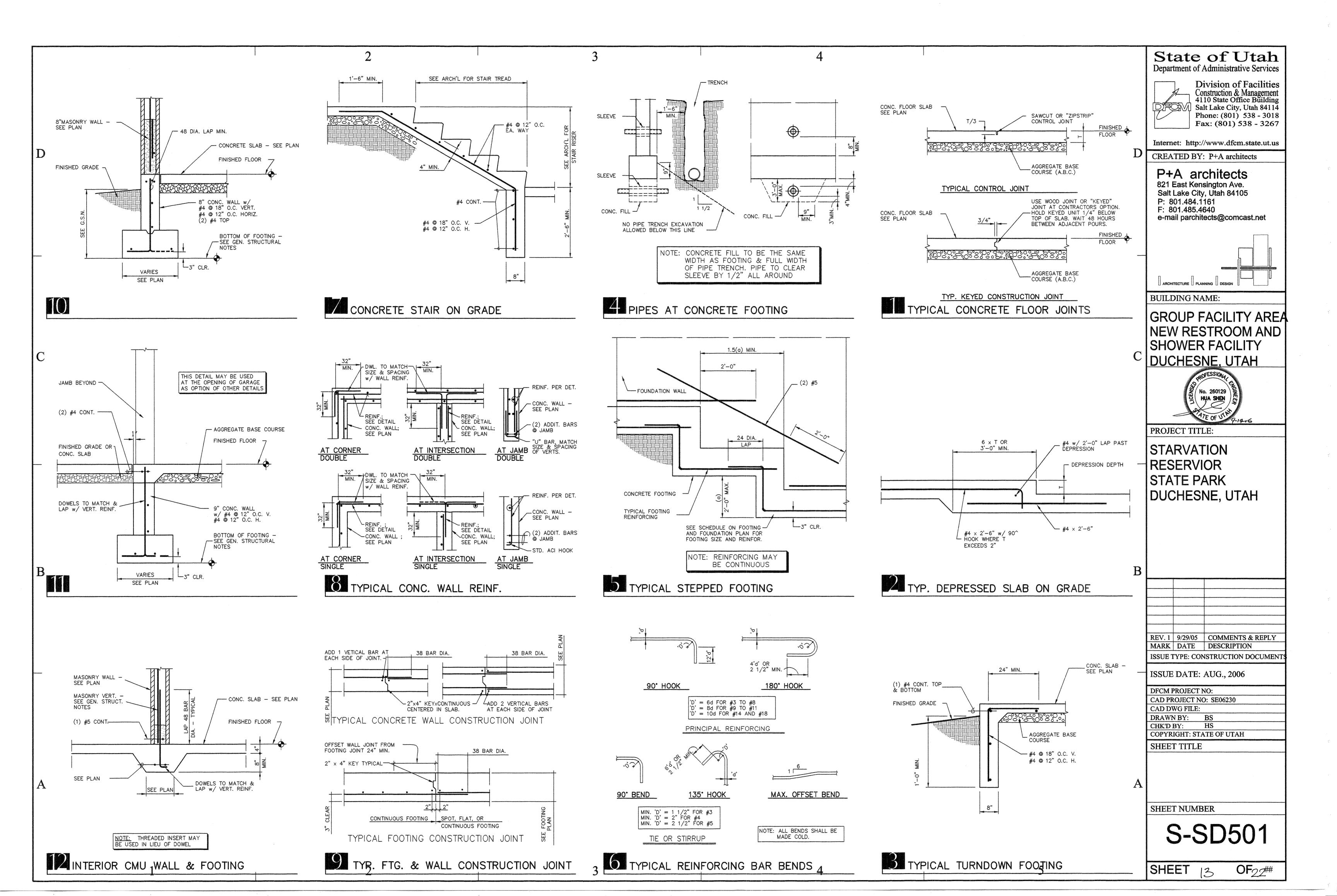
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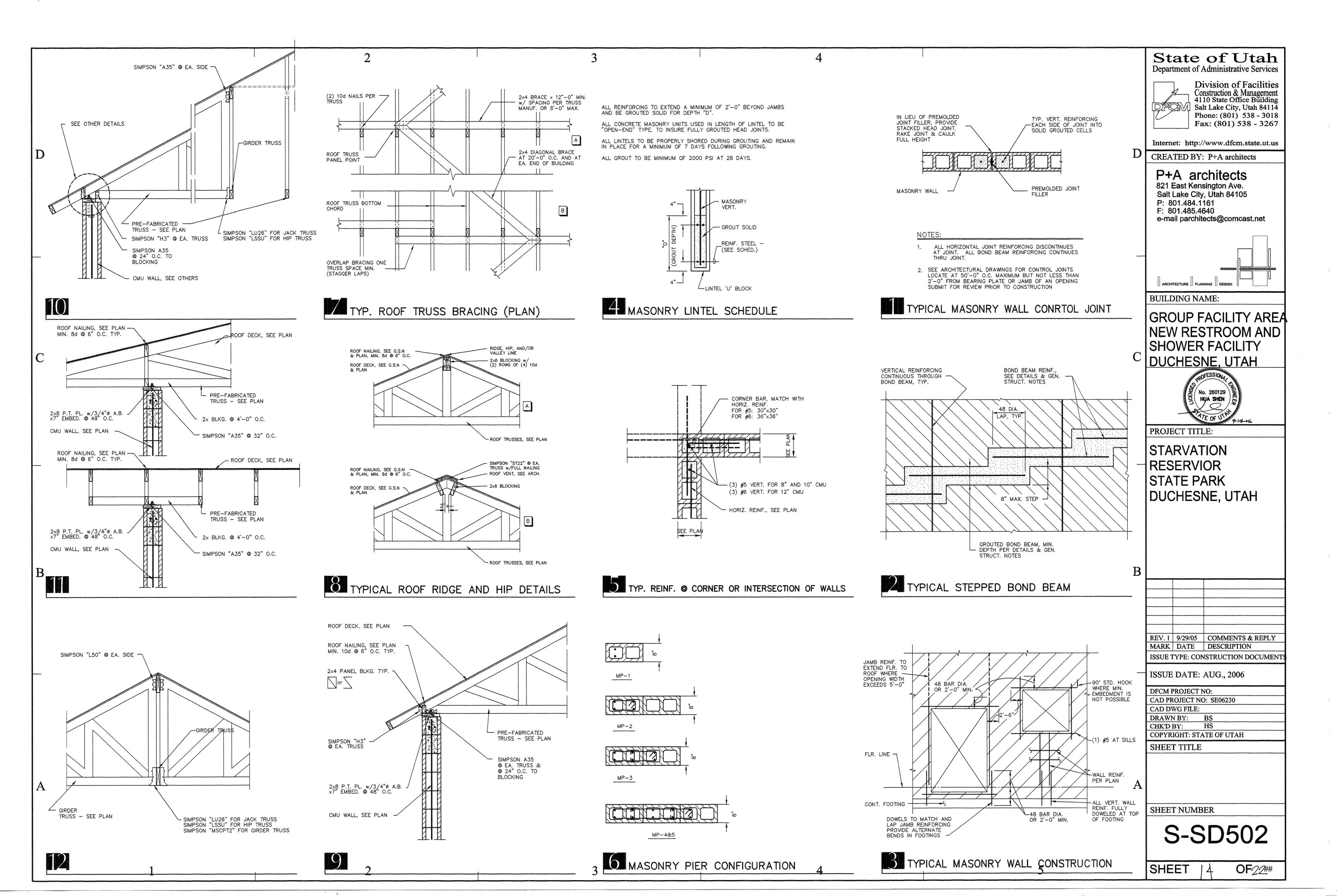
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SHEET OF22##

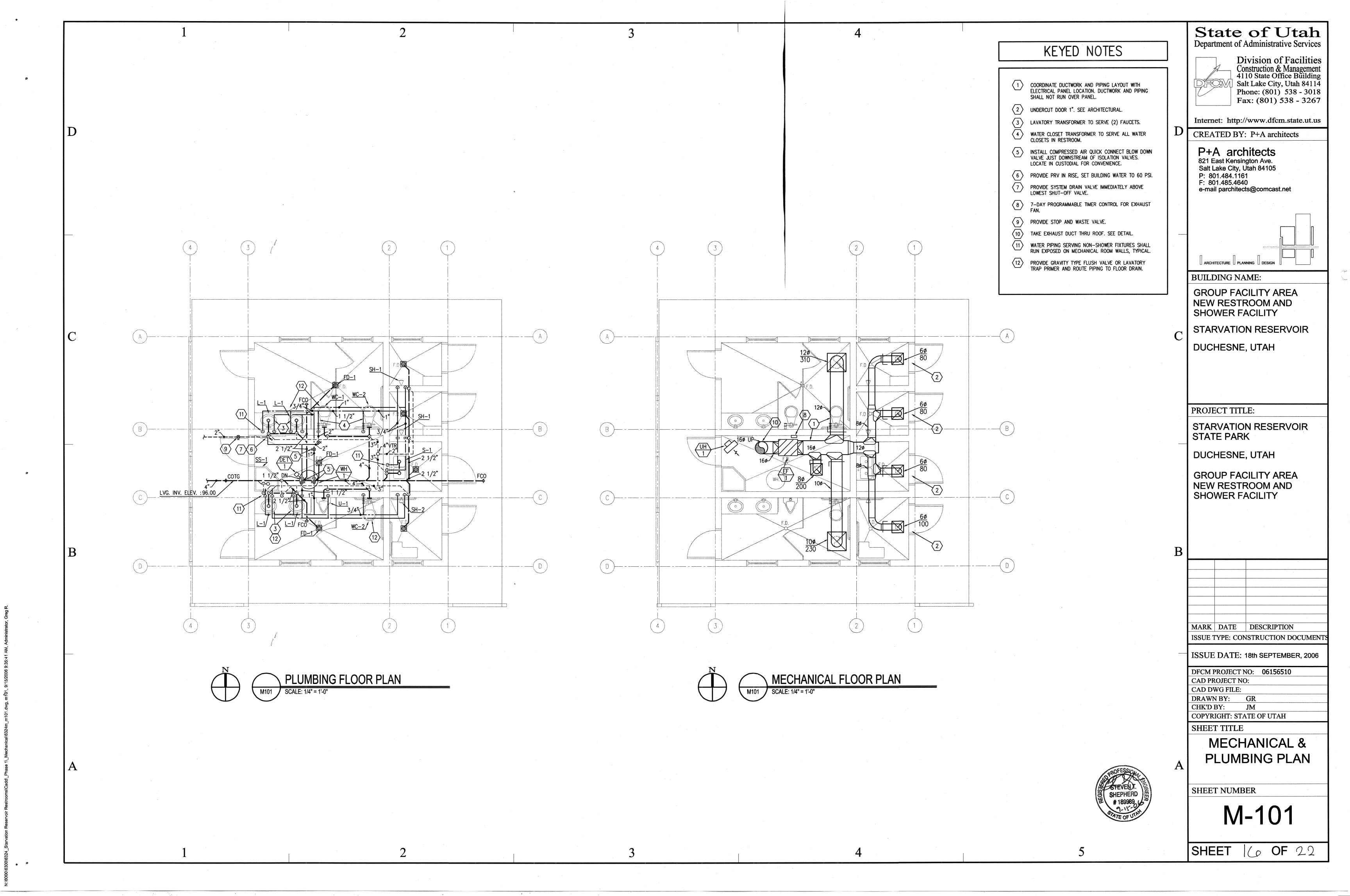


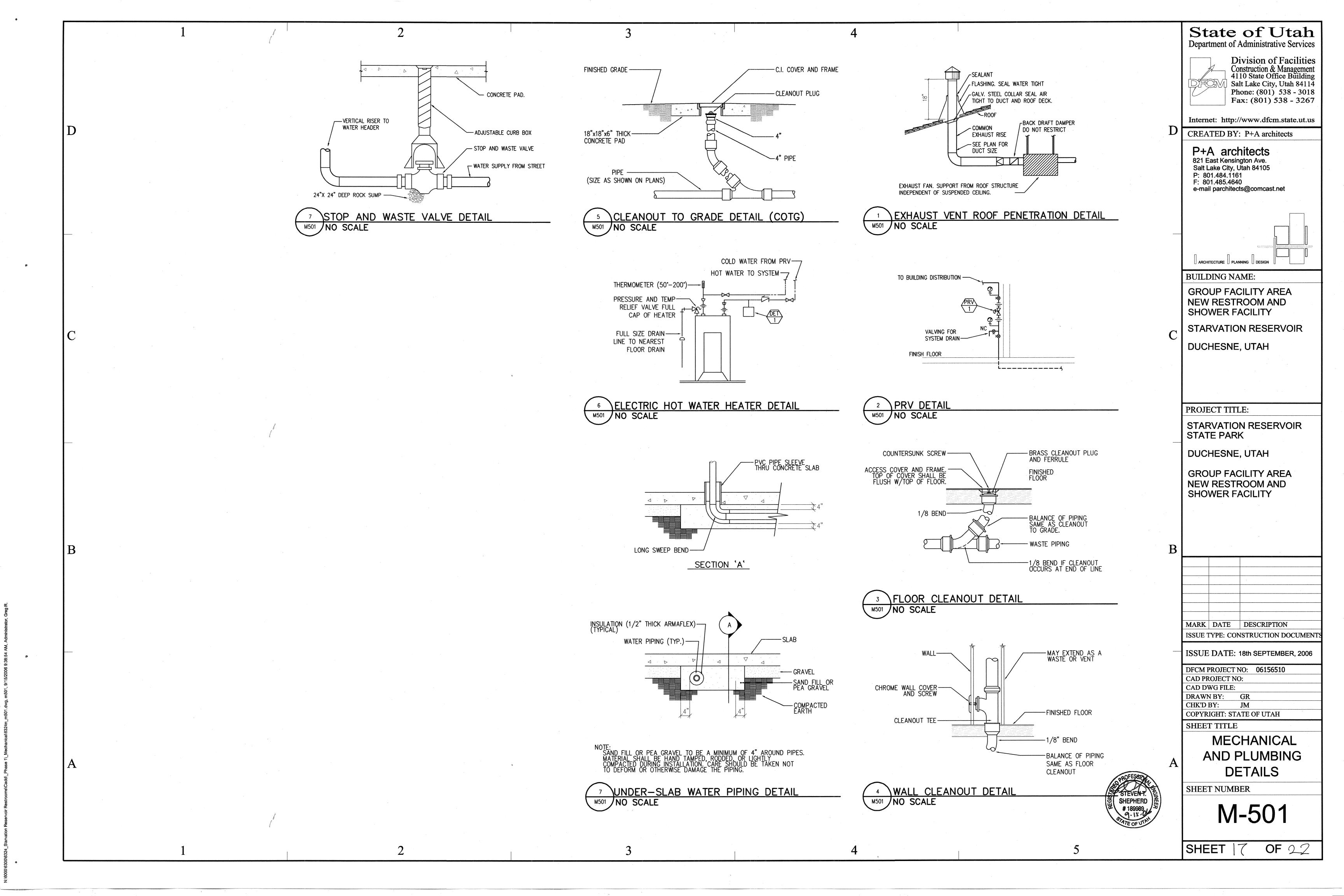




	1		2		3		4	ı		State of U Department of Administrative
	SINGLE LINE DOUBLE LINE			LEGEND C	F MECHANICAL SYME	BOLS AND AE	BBREVIATIONS			Division of Factorial Construction & May 4110 State Office Salt Lake City, University of the Construction of Factorial Construction & May 2110 State Office Salt Lake City, University of the Construction of Factorial Construction & May 2110 State Office Salt Lake City, University of the Construction of Factorial Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City, University of the Construction & May 2110 State Office Salt Lake City & May 2110 State Office Salt Lake City & May 2110 State Office Salt Construction & May 2110 State Office Salt Const
		POSITIVE PRESSURE DUCT - RISE			4-WAY BLOW PATTERN	<u> </u>	FLOW SWITCH	ĕ	NRS GATE VALVE WITH SUPERVISION	Phone: (801) 538 Fax: (801) 538
		POSITIVE PRESSURE DUCT - DROP			3-WAY BLOW PATTERN		PRESSURE SWITCH	र्द	FLOW SWITCH	Internet: http://www.dfcm.s
		NEGATIVE PRESSURE DUCT - RISE			2-WAY BLOW PATTERN	——[<u>RPBP</u>]——	REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN	K+O	HOSE VALVE	D CREATED BY: P+A architec
		NEGATIVE PRESSURE DUCT - DROP			2-WAY BLOW PATTERN	— — ——————————————————————————————————	PRESSURE REDUCING, SELF CONTAINED VALVE	RD	ROOF DRAIN	P+A architects 821 East Kensington Ave.
		ROUND DUCT - RISE			1-WAY BLOW PATTERN		PRESSURE REDUCING, EXTERNAL PRESSURE VALVE		ROOF DRAIN OVERFLOW	Salt Lake City, Utah 84105 P: 801.484.1161 F: 801.485.4640
		ROUND DUCT - DROP		LPC	LOW PRESSURE CONDENSATE	- \$\$-	BALL VALVE (PIPE SIZES 2" AND SMALLER) BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)		CLEAN-DUT	e-mail parchitects@comcast.ne
		UNDER FLOOR DUCT		MPC	MEDIUM PRESSURE CONDENSATE		CHECK VALVE	ф	FLOOR CLEAN-DUT OR CLEAN-DUT TO GRADE	
		TURNING VANES		HPC	HIGH PRESSURE CONDENSATE	[-	MOTOR OPERATED BUTTERFLY VALVE	o VTR	VENT THRU ROOF	
		FRESH AIR LOUVER		LPS	LOW PRESSURE STEAM	—-IŢ——	GAS COCK		DOMESTIC COLD WATER	
	†	TREST AIR EBOVER		MPS	MEDIUM PRESSURE STEAM		RELIEF VALVE		DOMESTIC HOT WATER	ARCHITECTURE PLANNING DESIGN
		RELIEF AIR OR EXHAUST AIR LOUVER		HPS	HIGH PRESSURE STEAM	>>	GATE VALVE		DOMESTIC RECIRCULATING HOT WATER	BUILDING NAME: GROUP FACILITY AR
	†	KELIEF AIR UR EXHAUST AIR LUUVER		v	VACUUM	-12-	ATC VALVE - 2 WAY		SEWER (BELOW GRADE)	NEW RESTROOM AN
		CEILING SUPPLY DIFFUSER			PUMPED CONDENSATE	<u>c</u>	ATC VALVE - 3 WAY		SEWER (ABOVE GRADE)	SHOWER FACILITY STARVATION RESER
		CEILING RETURN REGISTER		MU	MAKE UP WATER		GLDBE VALVE		VENT (SEWER)	C
		CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)		с	NATURAL GAS	GPM	FLOW CONTROL VALVE	<u>P-1</u>	PLUMBING FIXTURES	DUCHESNE, UTAH
		SIDEWALL SUPPLY REGISTER TOP FIGURES INDICATE NECK SIZE, BOTTOM FIGURE INDICATES CFM.		(E)name	EXISTING PIPING		CALIBRATED BALANCING VALVE		POINT OF CONNECTION	
		SIDEWALL EXHAUST OR RETURN REGISTER		CH\ncap\chi_S	CHILLED WATER SUPPLY	· [SHUT-DFF CDCK FOR USE WITH PRESSURE GAUGE	A M1-1	SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.	
	200 12X12	CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT		CHVR	CHILLED WATER RETURN		PUMP .	1 M1-1	DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.	PROJECT TITLE:
		W/ Short baat		cs	CONDENSER WATER SUPPLY		FLEXIBLE CONNECTION	EF 1	EQUIPMENT IDENTIFICATION	STARVATION RESER
	——————————————————————————————————————	LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS ON 70P, ACTIVE LENGTH AND CFM /ON BOTTOM		CR	CONDENSER WATER RETURN	—— <u>—</u>	FLOW METER	1	KEYED NOTE IDENTIFICATION	DUCHESNE, UTAH
,		FLEXIBLE DUCT CONNECTION		HWS	HEATING HOT WATER SUPPLY		90° ELBOW		ANCHOR	GROUP FACILITY AF
	~~~~~~~ <del> </del>	FLEXIBLE DUCT		HWR	HEATING HOT WATER RETURN		45° ELBOW			NEW RESTROOM AN
		FAN		GHR	GLYCOL HEAT RECOVERY PIPING		REDUCER			SHOWER FACILITY
	12/8	RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.		G(NAME)	GLYCOL PIPING SOLUTION	<b>──</b>	CONCENTRIC REDUCER			
·		ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.		LPG	LIQUIFIED PETROLEUM GAS		ECCENTRIC REDUCER			
		INCLINED RISE WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH		<del>-x x (</del> NAME) <del>- x x -</del>	EXISTING PIPING TO BE REMOVED	<b>₽</b>	LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE WHERE DISCHARGE IS NOT PIPED TO DRAIN			В
		INCLINED DROP RADIUS TURNS=DEPTH OF DUCT.			REFRIGERANT LIQUID		THERMOMETER 0-100°F			
	<del>                                  </del>	R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR		RS	REFRIGERANT SUCTION	T	THERMOSTAT			
	12/12 8/8 21/12	RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15* INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.		——— HG ————	HOT GAS	① n	NIGHT THERMOSTAT		e	
		RECTANGULAR TO ROUND DUCT TRANSFORMATION		- S  - -	SOLENDID VALVE	<u>\$</u>	SENSOR			MARK DATE DESCRIPTI ISSUE TYPE: CONSTRUCTION
	, , , , , ,	BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.		<del>-</del>	EXPANSION JOINT		STEAM TRAP, F&T=FLOAT & THERMOSTATIC B=BUCKET, T=THERMOSTATIC			ISSUE DATE: 18th SEPTEN
	RECT. TO 6	TAP ENTRY AREA EQUALS 150% OF BRANCH AREA			ALIGNMENT GUIDE	<u> </u>	DUCT SMOKE DETECTOR			DFCM PROJECT NO: 061565
		MANUAL VOLUME DAMPER		<del>-× × ×</del>	DEMOLITION		ARROW INDICATES DIRECTION OF FLOW IN PIPE			CAD PROJECT NO: CAD DWG FILE:
		FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.		<u>\$</u>	PRESSURE GAUGE WITH SHUT-OFF COCK	<u>DN</u>	LEADER INDICATES DOWNWARD SLOPE			DRAWN BY: GR CHK'D BY: JM
	FCD	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL		Ø B	PRESSURE GAUGE WITH PIGTAIL	œ	PIPE INTO PLANE			COPYRIGHT: STATE OF UTAR SHEET TITLE
		SMDKE DAMPER W/ ACCESS PANEL			FLANGE	o	PIPE DUT DF PLANE			LEGEND C
		ATC DAMPER			UNION	<u></u>	PIPE BRANCH - IN TO PLANE	· .	DEFEC	A MECHANIC
	AD	ACCESS PANEL IN DUCT DR PLENUM		GPM    LB/HR.	FLOW METER ORIFICE		PIPE BRANCH - OUT OF PLANE		PROFESSION SHEPHERD SHEPHERD	SYMBOLS
7		HEATING OR COOLING COIL IN DUCT			AIR VENT-MANUAL	L_	PIPE BRANCH - IN PLANE		<b>10                                    </b>	SHEET NUMBER
		SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME, MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.		<u> </u>	AIR VENT-AUTO				9.15-09	M-100
l		<i>?</i>								
	1	<i>[</i> *	•		2		4		<b>5</b>	SHEET 5 OF

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	PLUMBING FIXTURE SCHEDULE											
·		CW	HW	W*	V*							
SYMBOL	FIXTURE	(IN)	(IN)	(IN)	(IN)	REMARKS						
WC-1	WATER CLOSET	1	-,-	4	2	WALL MOUNTED, FLUSH VALVE, 1.6 GPF, VITREOUS CHINA						
WC-2	WATER CLOSET	1		4	2	WALL MOUNTED, FLUSH VALVE, ADA COMPLIANT, 1.6 GPF, VITREOUS CHINA						
U-1	URINAL	3/4	•,•	2	* 1 ½	WALL HUNG, VITREOUS CHINA, FLUSH VALVE						
L-1	LAVATORY	1/2	1/2	1 1/2	*1½	WALL HUNG, VITREOUS CHINA, 4" O.C. FAUCET						
S-1	SINK	1/2	1/2	1 1/2	*11/2	STAINLESS STEEL, DOUBLE COMPARTMENT						
SH-1	SHOWER	1/2	1/2	2	*11/2	SINGLE HANDLED, PRESSURE BALANCED, FIXED SHOWERS, FLOOR DRAIN W/CHROME PLATED STRAINER						
SH-2	SHOWER	1/2	1/2	2	* 1 ½	SINGLE HANDLED, PRESSURE BALANCED, HAND HELD SHOWER, ADA COMPLIANT, FLOOR DRAIN W/CHROME PLATED STRAINER						
SS-1	SERVICE SINK	1/2	1/2	3	* 1 ½	FLOOR MOUNTED CORNER MOP SINK						
FD-1	FLOOR DRAIN	-,-		2	*11/2	GENERAL USE, 6" DIA. NICKLE BRONZE STRAINER, CAST IRON BODY						

## * MINIMUM UNDERGROUND PIPING SIZE TO BE 2".

			DOMESTIC EX	PANSION TANK SCHED	ULE					-
	MANUF.				TANK		RELIEF	DIA	NPTM	
	AND		SYSTEM		SIZE	WORKING	VALVE	HEIGHT	FITTING	
SYMBOL	MODEL NO.	LOCATION	SERVED	TYPE	(GAL)	FLUID	(PSI)	(IN)	(IN)	REMARKS
DET-1	THERM-X-TROL ST-12	MECHANICAL ROOM	DOMESTIC HOT WATER	DIAPHRAM	2.1	WATER	150	10/10.5	3/4	
						-				

		EX	HAUST FAN SCHEI	DULE					
				FAN		MOTOR			
				TOTAL	TOT. STATIC				
	MANUF.	-		AIR FLOW	PRESSURE		FAN		
	AND			RATE	DROP		SPEED		
SYMBOL	MODEL NO.	LOCATION	SERVICE	(CFM)	(IN H20)	HP	(RPM)	VOLT/PH	REMARKS
EF-1	COOK GN-1000	CUSTODIAL	ENTIRE BUILDING	1100	0.6	0.500	1100	120/1	1,2,3

- 1. EQUIPMENT SELECTION BASED ON 5700 FT. ELEVATION
- 2. DIRECT DRIVE CEILING EXHAUST FAN WITH INTEGRAL SPEED CONTROL. PROVIDE GRAVITY BACKDRAFT DAMPER, INTEGRAL THERMAL OVERLOAD PROTECTION AND DISCONNECT.
- 3. CONTROL: COMPLETE WITH 7-DAY PROGRAMMABLE TIMER CONTROL. INSTALL IN CUSTODIAL ROOM.

		ELEC ⁻	TRIC UNIT HEATE	R SCHED	ULE				
							ELECTRICAL		
	MANUF.			HEA	TING				
	AND		MOUNTING	CAPA	ACITY				
SYMBOL	MODEL NO.	LOCATION	TYPE	KW	MBH	CFM	AMPS	VOLT/PH	REMARKS
UH-1	Q-MARK MUH03-21	MECHANICAL RM.	CEILING	3	10.2	350	12.5	240/1	1,2

- 1. UNIT COMPLETE WITH INTEGRAL VANDAL PROOF LOCKING THERMOSTAT
- 2. UNIT COMPLETE WITGH INTEGRAL STARTER AND DISCONNECT

				<b>WATER</b>	HEATER	SCHEDU	JLE					-		
						ENTERING	LEAVING		REQUIRED			ELECTRICAL		
	MANUF.					WATER	WATER	STORAGE	RECOVERY	POWER	HEIGHT/			
	AND			EFF.		TEMP	TEMP	CAPACITY	RATE	INPUT	DIA.			
SYMBOL	MODEL NO.	LOCATION	SERVICE	(%)	TYPE	(°F)	(°F)	(GAL)	(GPM)	(kW)	(IN)	V/PH	AMPS	REMARKS
WH-1	A.O. SMITH DRE-120-27	MECHANICAL ROOM	DOMESTIC WATER	-,-	ELECTRIC	40	130	120	123	27	65/30	240/1	112.5	
					-	`								

			DOMESTIC PRV	SCHEDU	JLE				
	MANUF. AND				CADACITY	INLET	OUTLET	SIZE	
SYMBOL	MODEL NO.	LOCATION	SERVICE	TYPE	(GPM)	(PSIG)	PRESSURE (PSIG)	(IN)	REMARKS
DPRV-1	WATTS U5B	CUST. ROOM	DOMESTIC WATER	DIRECT	20	100	60	3/4	

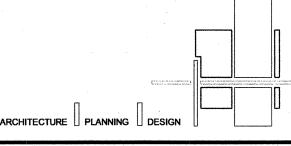


State of Utah
Department of Administrative Services

Division of Facilities Construction & Management 4110 State Office Building Salt Lake City, Utah 84114 Phone: (801) 538 - 3018 Fax: (801) 538 - 3267

Internet: http://www.dfcm.state.ut.us D CREATED BY: P+A architects

> P+A architects 821 East Kensington Ave.
> Salt Lake City, Utah 84105
> P: 801.484.1161
> F: 801.485.4640
> e-mail parchitects@comcast.net



**BUILDING NAME:** 

**GROUP FACILITY AREA** NEW RESTROOM AND SHOWER FACILITY

STARVATION RESERVOIR

DUCHESNE, UTAH

PROJECT TITLE:

STARVATION RESERVOIR STATE PARK

DUCHESNE, UTAH

**GROUP FACILITY AREA** NEW RESTROOM AND SHOWER FACILITY

MARK DATE DESCRIPTION ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 18th SEPTEMBER, 2006

DFCM PROJECT NO: 06156510 CAD PROJECT NO: CAD DWG FILE: DRAWN BY: GR CHK'D BY: JM COPYRIGHT: STATE OF UTAH

SHEET TITLE

**MECHANICAL** AND PLUMBING SCHEDULES

SHEET NUMBER

M-502

SHEET 8 OF 22

Department of Administrative Services WIRING DEVICE SYMBOLS GENERAL SYMBOLS LIGHTING SYMBOLS Division of Facilities MOUNTING SYMBOL DESCRIPTION REMARKS SYMBOL DESCRIPTION REMARKS I. LIGHT FIXTURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN ON THE DRAWINGS IN VARIOUS SIZES AND SHAPES. REFER TO THE LIGHT FIXTURE SCHEDULE FOR SPECIFICATION INFORMATION. SINGLE-POLE TOGGLE SWITCH +48" KEYED NOTE Salt Lake City, Utah 84114 SUBSCRIPT KEYS SWITCH TO +48" SINGLE-POLE TOGGLE SWITCH 2. ARROWS INDICATE AIMING DIRECTION. TOP NUMBER INDICATES DETAIL NUMBER; BOTTOM FIXTURES CONTROLLED. LETTER-NUMBER INDICATES DRAWING SHEET WHERE **\$**2 DOUBLE-POLE TOGGLE SWITCH +48" MOUNTING DETAIL IS SHOWN; WHERE NOT SPECIFICALLY SYMBOL DESCRIPTION REMARKS Fax: (801) 538 - 3267 DETAIL REFERENCE REFERENCED, DETAIL IS GENERAL IN NATURE AND +48" THREE-WAY TOGGLE SWITCH SHALL APPLY WHERE APPLICABLE. AS SPECIFIED ARM-MOUNTED SINGLE-HEAD LIGHT FIXTURE AND POLE \$4 FOUR-WAY TOGGLE SWITCH +48"  $\rightleftharpoons$ OR DETAILED Internet: http://www.dfcm.state.ut.us TOP NUMBER INDICATES ELEVATION NUMBER; KEY-OPERATED SINGLE-POLE TOGGLE SWITCH +48" BOTTOM LETTER-NUMBER INDICATES WHERE ELEVATION REFERENCE CREATED BY: P+A architects ELEVATION IS SHOWN. ARM-MOUNTED DOUBLE-HEAD LIGHT FIXTURE AND POLE OR DETAILED SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT +48" \$p RATE DIMMER SWITCH FOR \$_{DIM} AS SPECIFIED +48" POST-TOP SINGLE-HEAD, LIGHT FIXTURE AND POLE DIMMER SWITCH P+A architects MAXIMUM POSSIBLE WATTAGE TOP NUMBER INDICATES SECTION NUMBER; BOTTOM OR DETAILED LETTER NUMBER INDICATES WHERE SECTION IS 821 East Kensington Ave. SECTION REFERENCE \$_{TIM} TIMER SWITCH +48" AS SPECIFIED REFER TO ARCHITECTURAL EXTERIOR WALL-MOUNTED FIXTURE Salt Lake City, Utah 84105 ELEVATIONS FOR MOUNTING HEIGHT OR DETAILED DUAL LEVEL SWITCH OUTBOARD LAMPS (2) SINGLE-POLE TOGGLE SWITCH P: 801.484.1161 AS SPECIFIED SEPARATELY FROM INBOARD LAMPS. O | LIGHT BOLLARD F: 801.485.4640 OR DETAILED LOW VOLTAGE MOMENTARY CONTACT SWITCH +48" e-mail parchitects@comcast.net AS SPECIFIED ARCHITECTURAL ROOM NUMBER FLOOD LIGHT REFER TO DETAIL OR DETAILED 3-POSITION MOMENTARY CONTACT SWITCH +48" \$3PM UP-ON: CENTER-NEUTRAL: DOWN-OFF AS SPECIFIED REFER TO ARCHITECTURAL EXTERIOR RECESSED WALL FIXTURE OR STEP LIGHT TOP NUMBER ABBREVIATES EQUIPMENT NAME OR ELEVATIONS FOR MOUNTING HEIGHT 3-POSITION MAINTAINED CONTACT SWITCH UP-ON; CENTER-OFF; DOWN-ON OR DETAILED \$3PN EQUIPMENT NAME / NUMBER TYPE; BOTTOM NUMBER INDICATES EQUIPMENT NUMBER. REFER TO EQUIPMENT SCHEDULE. CEILING MOUNTED WITH SUBSCRIPT 'C AS NOTED OCCUPANCY SENSOR WALL-MOUNTED WITH SUBSCRIPT 'W' USED TO DENOTE CHANGES EITHER ISSUED BY AS SPECIFIED FLUORESCENT LIGHT FIXTURES +18" REVISION NUMBER SPLIT-WIRED DUPLEX RECEPTACLE ADDENDUM OR DURING CONSTRUCTION AND TO OR DETAILED DENOTE RECORD DRAWING CHANGES. θ-SIMPLEX RECEPTACLE +18" DUPLEX RECEPTACLE +18" BREAKLINE USED TO BREAK DRAWINGS. ARCHITECTURE | PLANNING | DESIGN +18" FOURPLEX RECEPTACLE RANGE -- NEMA 14-50R AS SPECIFIED +18" 125/250V RECEPTACLE PARABOLIC - LOUVERED LIGHT FIXTURES **BUILDING NAME:** DRYER -- NEMA 14-30R OR DETAILED ELECTRICAL SYMBOL SCHEDULE GENERAL NOTES +18" GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE GROUP FACILITY AREA GROUND FAULT CIRCUIT INTERRUPTER FOURPLEX RECEPTACLE +18" **NEW RESTROOM AND** MOUNT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BELOW, UNLESS NOTED OTHERWISE ON THE EMERGENCY DUPLEX RECEPTACLE +18" AS SPECIFIED DRAWINGS. UNLESS NOTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER OF OUTLET BOX. RECESSED INDIRECT FLUORESCENT LIGHT FIXTURES SHOWER FACILITY +18" EMERGENCY FOURPLEX RECEPTACLE OR DETAILED 4" ABOVE MULTI-OUTLET ASSEMBLY WHERE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, REFER TO ABBREVIATION SCHEDULE FOR BACKSPLASH STARVATION RESERVOIR DEFINED REQUIREMENTS. AS SPECIFIED WALL-MOUNTED LINEAR FLUORESCENT LIGHT FIXTURE OR DETAILED POWER / TELEPHONE POLE FLOOR/CEILING WHERE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'A', MOUNT AT 4" ABOVE COUNTER. IF ◆ CORD DROP WITH DUPLEX RECEPTACLE +18" REFER TO DETAIL DUCHESNE, UTAH AS SPECIFIED COUNTER HAS A BACK SPLASH, MOUNT AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FLUORESCENT LINEAR WALL WASHER OR DETAILED SUBSCRIPT IN PARENTHESIS INDICATES NEMA AND COORDINATE WITH CASEWORK SUPPLIER. CONFIGURATION IF SHOWN, REFER TO AS SPECIFIED SPECIAL PURPOSE OUTLET DRAWINGS AND/OR EQUIPMENT SCHEDULES. RECESSED DOWN LIGHT NOT ALL ELECTRICAL SYMBOLS MAY BE USED. OR DETAILED (5-20R) CONFIRM EXACT CONFIGURATION WITH OWNER PRIOR TO INSTALLATION. AS SPECIFIED IF SHOWN, ARROW INDICATES RECESSED WALL-WASHER OR DIRECTIONAL DOWNLIGHT OR DETAILED AIMING DIRECTION BRANCH CIRCUITING SYMBOLS AS SPECIFIED GEAR AND CONTROL SYMBOLS SURFACE OR PENDANT-MOUNTED LIGHT FIXTURE OR DETAILED SYMBOL DESCRIPTION REMARKS PROJECT TITLE: REFER TO ARCHITECTURAL EXTERIOR SYMBOL DESCRIPTION MOUNTING REMARKS ARROWS: NUMBER OF ARROWS INDICATES WALL-MOUNTED LIGHT FIXTURE OR DETAILED ELEVATIONS FOR MOUNTING HEIGHT NUMBER OF CIRCUITS REQUIRED. MANUAL STARTER WITH THERMAL OVERLOAD(S) AT EQUIPMENT CIRCUIT, 2 WIRE BRANCH CIRCUIT HOME RUN TO PANEL STARVATION RESERVOIR AS SPECIFIED IF SHOWN, ARROW INDICATES 9 ELECTRIC MOTOR TRACK OR MONO-POINT LIGHT FIXTURE <u>SHORT CROSS LINES:</u> NUMBER OF SHORT OR DETAILED AIMING DIRECTION CROSS LINES INDICATES NUMBER OF PHASE, STATE PARK NON-FUSED DISCONNECT SWITCH +60" TRAVELER, AND/OR SWITCHED 2 CIRCUIT, 3 WIRE BRANCH CIRCUIT HOME RUN TO PANEL AS SPECIFIED WALL SCONCE CONDUCTORS REQUIRED IF GREATER THAN +60" FUSED DISCONNECT SWITCH OR DETAILED DUCHESNE, UTAH +60" CIRCUIT BREAKER AND ENCLOSURE AS SPECIFIED THIS IS AN EXAMPLE OF AN EGRESS
LIGHT FIXTURE. EGRESS LIGHT FIXTURES LONG CROSS LINES: NUMBER OF LONG FLUORESCENT EGRESS LIGHT FIXTURE MAGNETIC STARTER OR DETAILED ARE HALF-SHADED DIAGONALLY. CROSS LINES INDICATES NUMBER OF 3 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO PANEL COMBINATION MAGNETIC STARTER / NON-FUSED DISCONNECT NEUTRAL CONDUCTORS REQUIRED FOR +60" FLUORESCENT EMERGENCY (NON-EGRESS) LIGHT FIXTURE

AS SPECIFIED OR DETAILED

THIS IN AN EXAMPLE OF AN EMERGENCY (NON-EGRESS) LIGHT FIXTURE. **GROUP FACILITY AREA** MULTI-WIRE HOME RUNS. COMBINATION MAGNETIC STARTER / FUSED DISCONNECT +60" **NEW RESTROOM AND** EQUIPMENT GROUND AND ISOLATED +60" COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP) SHOWER FACILITY GROUND CONDUCTORS: EQUIPMENT FLOOR OR WALL TOP AT +72" IF CEILING MOUNTED EXIT SIGN VFD MULTIPLE WIRE BRANCH CIRCUITING BETWEEN FIXTURES, COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP) GROUND AND ISOLATED GROUND AS SPECIFIED WALL MOUNTED CONDUCTORS ARE NOT SHOWN, BUT ARE WALL ABOVE | DARKENED PORTION OF SIGN INDICATES SWITCHES, DEVICES, ETC. WALL-MOUNTED EXIT SIGN FLOOR OR WALL TOP AT +72" IF REQUIRED AS NOTED ON THE DRAWINGS OR DOOR FACE(S); ARROW(S) INDICATE CHEVRON RV9 REDUCED VOLTAGE STARTER IN THE SPECIFICATIONS. AS SPECIFIED WALL MOUNTED WALL ABOVE DIRECTION(S) LOAD CENTER (SURFACE-MOUNTED) TOP AT +72" 14"W X 3"D WALL-MOUNTED EXIT SIGN W/ EMERGENCY LIGHT FIXTURE BRANCH CIRCUITING (U.N.O.) TURNED UP OR TOWARDS OBSERVER. LOAD CENTER (FLUSH-MOUNTED) TOP AT +72" 14"W X 3"D TIME CLOCK TOP AT +72" BRANCH CIRCUITING (U.N.O.) TURNED DOWN OR LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED) 20"W X 6"D AWAY FROM OBSERVER. LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED) TOP AT +72" 20"W X 6"D AS NOTED EMERGENCY LIGHT FIXTURE THESE SYMBOLS ARE BRANCH CIRCUITING (U.N.O.) CONTINUATION GENERAL IN NATURE AND POWER DISTRIBUTION PANELBOARD MOUNT ON ROOF FACING NORTH SKY ELECTRIC PHOTOCELL MAY VARY IN SIZE AND CONDUIT STUB-IN CAP AND MARK SHAPE TO SUIT APPLICATION. CROSS HATCHING INDICATES LIGHT FIXTURE CALLOUT (LETTER DENOTES FIXTURE TYPE) INCOMING SERVICE "MAIN PANELBOARD OR SWITCHBOARD" FLOOR SWITCHBOARD MOUNT AS NOTED. NAME IS INDICATED IN SUBSCRIPT 'F' INDICATES TO PROVIDE A JUNCTION BOX SEMI-QUOTES (I.E. 'L2A', 'MDP') ABBREVIATION SCHEDULE FLOOR BOX WITH BLANK COVERPLATE A METER BASE TOP AT +72" NOTE: NOT ALL ABBREVIATIONS MAY BE USED. FURNISH SWITCH UNLESS FURNISHED BY ANOTHER ABOVE COUNTER ISOLATED MARK | DATE | DESCRIPTION DIVISION. INSTALL AND KVA | KILO VOLT AMPERES OPEN - STOP - CLOSE SWITCH AMP OR AMPS CONNECT COMPLETE. REFER ADJ ADJACENT KW KILOWATTS ISSUE TYPE: REVIEW DOCUMENTS TO RELATED SPECIFICATION AFF ABOVE FINISHED FLOOR LFMC | LIQUID-TIGHT METAL CONDUIT AUTHORITY HAVING JURISDICTION LFNC LIQUID-TIGHT NONMETAL CONDUIT PROVIDED BY DIVISION ALUMINUM HVAC THERMOSTAT ISSUE DATE: 18th SEPTEMBER, 2006 MCA | MINIMUM CIRCUIT AMPS 15000 U.N.O. CONDUIT MLO | MAIN LUGS ONLY CIRCUIT BREAKER N.C. HAND - OFF - AUTO SWITCH +60" NORMALLY CLOSED DFCM PROJECT NO: 06156510 CKT | CIRCUIT N.I.C. NOT IN CONTRACT C.O.'S | CONVENIENCE OUTLETS GROUND FAULT PROTECTION N.L. NIGHT LIGHT CAD PROJECT NO: CU | COPPER N.O. NORMALLY OPEN CAD DWG FILE: EA EACH ON CENTER(S) OCP OVER CURRENT PROTECTION ELEC ELECTRICAL DRAWN BY: EM EMERGENCY QTY QUANTITY RWC CHK'D BY: EMT | ELECTRIC METALLIC TUBING ENT | ELECTRIC NONMETALLIC TUBING REQ. | REQUIREMENTS **COPYRIGHT: STATE OF UTAH** EQUIP EQUIPMENT RMC | RIGID METAL CONDUIT EWC | ELECTRIC WATER COOLER RNC | RIGID NONMETALLIC CONDUIT SHEET TITLE E, EX EXISTING REMOVE AND RELOCATE EXP | EXPLOSION PROOF SURGE SUPPRESSION **ELECTRICAL** SCP | SECURITY CONTROL PANEL FA FIRE ALARM FACP | FIRE ALARM CONTROL PANEL TR TAMPER RESISTANT TYP TYPICAL **SYMBOLS** FLA | FULL LOAD AMPS FMC | FLEXIBLE METAL CONDUIT TVSS | TRANSIENT VOLTAGE SURGE SUPRESSOR FOB FREIGHT ON BOARD UF UNDER FLOOR GND GROUND CONDUCTOR UNDERGROUND HAND-OFF-AUTO U.N.O. | UNLESS NOTED OTHERWISE HORSE POWER SHEET NUMBER ISOLATED GROUND WP WEATHER PROOF INTERMEDIATE METAL CONDUIT | XFMR | TRANSFORMER INS INSULATED EG100 SHEET

State of Utah

Construction & Management 4110 State Office Building Phone: (801) 538 - 3018

